

From: Romeo, David

Sent: Tuesday, November 10, 1998 8:00 AM

T: STIC-Biotech/ChemLib

Subject: 08/945,459

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Office: ... CM1, 10E09 (Mailbox, 10C01)

Date of Request: ... 10 November 1998

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11-201

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SEQ ID NOs:1 and 4.

1

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FILE 'USPAT' ENTERED AT 08:02:22 ON 10 NOV 1998
          . WELCOME TO THE U.S. PATENT TEXT FILE
       => s mp52 or (mp 52) or gdf5 or (gdf 5) or ((growth(la)differentiation)(w)factor(w)5)
                                    mp52 or (mp 52) or gdf5 or

1 4 Mp52
29697 MP
831400 52
247 MP 52
(MP (M) 52)
0 GDF5
4 GDF 5
(GDF (M) 5)
142295 GROWTH
127110 MCTOR
271110 MCTOR
14 (GROWTH (1A)DIFFE
                                                           1 (GROWTH(1A)DIFFERENTIATION) (W) FACTOR(W) 5
363 MF52 OR (MP 52) OR GDF5 OR (GDF5) OR ((GROWTH(1A)DIFFERENT
                                                                           ION) (W) FACTOR (W) 5)
   => s 11 and (530, 435, 514/cor)
                                                              0 530, 435, 514/COR
0 L1 AND (530, 435, 514/COR)
   => s 11 and (530, 435, 514/clas)
                                                     0 530, 435, 514/CLAS
0 L1 AND (530, 435, 514/CLAS)
   -> s 11 and (530 or 435 or 514/clas)
                                                     35688 530
18229 435
78209 514/CLAS
178 L1 AND (530 OR 435 OR 514/CLAS)
   => s mp52 or gdf5 or gdf3 or ((gdf or ((growth(la)differentiation)(w)factor))(w)(3 or 5))
                                      ps2 of gd15 of gd14 of (1,915 of 1,915 
                                                                            W) FACTOR)) (W) (3 OR 5))
    => d bib ab 1- ..
                                                                                  5,830,761 [IMAGE AVAILABLE] L5: 1 of 33 Nov. 3, 1998 Medium and methods for culturing mammalian cho cells be a considered by the constant of t
 US PAT NO:
DATE ISSUED:
TITLE:
INVENTOR:
 ASSIGNEE:
APPL-NO:
DATE FILED:
ART-UNIT:
PRIM-EXMR:
LEGAL-REP:
                                                                                  5,830,761 [IMAGE AVAILABLE]
   US PAT NO:
                                                                                                                                                                                                                                                                                                             L5: 1 of 33
 ABSTRACT:
Cell culture media are provided containing high L-cystine concentration and low L-glutamic acid concentration. The media are useful for recombinant production of proteins using mammalian cell cultures.
                                                                                 5,827,733 [IMAGE AVAILABLE] L5: 2 of 3 Oct. 27, 1998 entiation factor-8 (GDF-8) and Strong of the Company of th
                                                                                                                                                                                                                                                           L5: 2 of 33
   INVENTOR:
   ASSIGNEE:
   APPL-NO:
DATE FILED:
ART-UNIT:
PRIM-EXMR:
LEGAL-REP:
   US PAT NO:
                                                                                    5,827,733 (IMAGE AVAILABLE)
                                                                                                                                                                                                                                                                                                             L5: 2 of 33
   ABSTRACT:
   Growth differentiation factor-8 (GDF-8) polypeptides, polynucleotides encoding GDF-8 polypeptides, and vectors and host cells containing GDF-8 encoding polynucleotides are provided.
                                                                                  5,821,805 [IMAGE AVAILABLE] L5: 3 of 33 oct. 13, 1998 Charge pump circuit having different threshold biases of the transistors Toshikatsu Jinbo, Tokyo, Japan NEC Corporation, Tokyo, Japan (foreign corp.) 08/884,333 Jun. 27, 1997 286
 US PAT NO:
DATE ISSUED:
TITLE:
 INVENTOR:
ASSIGNEE:
APPL-NO:
DATE FILED:
ART-UNIT:
PRIM-EXMR:
LEGAL-REP:
                                                                                     Terry Cunningham
Sughrue, Mion, Zinn, Macpeak & Seas, PLLC
   US PAT NO:
                                                                                    5,821,805 [IMAGE AVAILABLE]
                                                                                                                                                                                                                                                                                                             L5: 3 of 33
ABSTRACT:
In a charge pump circuit having a plurality of transistors connected in a diode configuration, the threshold voltage of the transistors are prevented from being increased due to a back-bias effect by having the threshold biases of the transistors adjusted. The circuit, therefore, ensures a desired voltage boosting ability.
                                                                                  5,821,056 [IMAGE AVAILABLE] L5: 4 of Oct. 13, 1998 Crowth differentiation factor-9 Se-Jin Lee, Baltimore, MD The Johns Hopkins University School of Medicine, Baltimore, MD (U.S. corp.) 09/491,835 Oct. 23, 1995 Oct. 23, 1995 Elizabeth C. Kemmerer Fish 6 Richardson, P.C.
   US PAT NO:
DATE ISSUED:
TITLE:
INVENTOR:
ASSIGNEE:
 APPL-NO:
DATE FILED:
ART-UNIT:
PRIM-EXMR:
LEGAL-REP:
                                                                                     5,821,056 (IMAGE AVAILABLE)
   US PAT NO:
   ABSTRACT:
 Growth differentiation factor-9 (GDP-9) is disclosed along with its polynucleotide sequence and amino acid sequence. Also disclosed are diagnostic and therapeutic methods of using the GDP-9 polypeptide and polynucleotide sequences.
                                                                                  5,817,622 [IMAGE AVAILABLE] L5: 5 of Cott. 6, 1998
Method for providing trophic support for neurons comprising administering neutrurin Eugene M. Johnson, Jr., St. Louis, MO Jeffrey D. Milbrandt, St. Louis, MO Paul T. Kotzbauer, St. Louis, MO Paul T. Kotzbauer, St. Louis, MO Paul T. Kotzbauer, St. Louis, MO MB/777 019 University, St. Louis, MO (U.S. corp.) Dec. 30, 1996
166
Stephen Walsh
 US PAT NO:
DATE ISSUED:
TITLE:
                                                                                                                                                                                                                                                                                                                L5: 5 of 33
   INVENTOR:
 ASSIGNEE:
APPL-NO:
ARTE FILED:
ART-UNIT:
PRIM-EXMR:
ASST-EXMR:
LEGAL-REP:
                                                                                     166
Stephen Walsh
Michael Pak
Howell & Haferkamp, LC
                                                                                     5,817,622 [IMAGE AVAILABLE]
 ABSTACT: A novel growth factor, neurturin, is disclosed. The human and mouse amino acid sequences have been identified, Human and mouse neurturin genemic acid sequences identified. The subcloning into vectors and the preparation of sequences identified. The subcloning into vectors and the preparation of cells stubly transformed with the vectors is also disclosed. In addition, methods for treating degenerative conditions using neurturin, methods for detecting gene alterations and methods for detecting and monitoring
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patient levels of neurturin are provided. Methods for identifying additional members of the neurturin-GDNF family of growth factors are also provided.
                                                                                                                       5,808,007 (IMAGE AVAILABLE) L5: 6 of Sep. 15, 1998 "Growth" "differentiation" "factor" "3" Se-Jin Lee, Baltimore, MD Alexandra C. McPherror, Baltimore, MD Thanking C. McPherror, Baltimore, MD (MS. Sorp.) School of Medicine, 08/481,77 Aug. 28, 1995 182 Elizabeth C. Kemmerer Fish & Richardson, P.C.
        US PAT NO:
DATE ISSUED:
TITLE:
INVENTOR:
        ASSIGNEE:
      APPL-NO:
DATE FILED:
ART-UNIT:
PRIM-EXMR:
LEGAL-REP:
      US PAT NO:
                                                                                                                           5,808,007 [IMAGE AVAILABLE]
      ABSTRACT:
      **Growth** **Differentiation** **factor**-**3** (**GDF**-**3**) is
disclosed along with its polynuclectide sequence and amino acid sequence.
Also disclosed are diagnostic and therapeutic methods of using the
**GDF**-**3** polypeptide and polynuclectide sequences.
                                                                                                                       US PAT NO:
DATE ISSUED:
TITLE:
INVENTOR:
    APPL-NO:
DATE FILED:
ART-UNIT:
PRIM-EXMR:
ASST-EXMR:
LEGAL-REP:
                                                                                                                           Jun. 7, 1995
182
John Ulm
Prema Mertz
Nikaido Marmelstein Murray & Oram LLP
      US PAT NO:
                                                                                                                           5.807.713 [IMAGE AVAILABLE]
                                                                                                                                                                                                                                                                                                                                                                                                                                                L5: 7 of 33
      ABSTRACT:
The invention concerns a protein of the TGF-beta. family, the DNA coding therefor and a pharmaceutical composition containing such a protein.
                                                                                                                         S,807,768 [IMAGE AVAILABLE] L5: 8 of 33 separation of 1988 to 
      US PAT NO:
DATE ISSUED:
TITLE:
INVENTOR:
        ASSIGNEE:
                                                                                                                       Millennium Financion
Corp.)
08/688,609
Jul. 30, 1996
182
Stephen Walsh
Claire M. Kaufman
Lahive & Cockfield, LLP
      APPL-NO:
DATE FILED:
ART-UNIT:
PRIM-EXMR:
ASST-EXMR:
LEGAL-REP:
                                                                                                                                                                                                                                                                                                                                                                                                                                     ,L5: 8 of 33
      US PAT NO:
                                                                                                                           5,807,708 [IMAGE AVAILABLE]
      ABSTRACT:
The present invention relates to the discovery of novel conservin genes and polyoptides. Therapeutics, diagnostics and screening assays based on these molecules are also disclosed.
                                                                                                                     S,802,373 [IMAGE AVAILABLE] L5: 9 of 33
Sep 1 1998
Method foorproviding a pipeline interpreter for a variable length instruction set John S. Yates, Needham, MA Stephen C. Root, Westboro, MA Digital Equipment Corporation, Maynard, MA (U.S. corp.) 09/522,982
09/522,982
174
Emanuel Todd Voeltz
Emanuel Todd Voeltz
Diane C. Drozenski, Ronald C. Hudgens
      US PAT NO:
DATE ISSUED:
TITLE:
      INVENTOR:
      ASSIGNEE:
        APPL-NO:
DATE FILED:
ART-UNIT:
PRIM-EXMR:
ASST-EXMR:
LEGAL-REP:
                                                                                                            5,802,373 (IMAGE AVAILABLE)
      US PAT NO:
                                                                                                                                                                                                                                                                                                                                                                                                                                     L5: 9 of 33
US PAT NO: 5,802,373 [IMAGE AVAILABLE] Los: y or so

ABSTRACT:
Ab computer system for executing a binary image conversion system which
computer system in the second, different native computer system. Includes
an run-time system which in response to a non-native image of an application program written for a non-native intruction set provides an
application program written for a non-native instruction set provides an
native instruction or a native instruction of the native instructions
collects profile data in response to a non-native instruction set provides an
collects profile data in response to execution of the native instructions
thereafter, the non-native instructions and the profile statistics are
fed to a binary translator operating in a background mode and which is
responsive to the profile data generated by the run-time system to form a
translated native image. The run-time system and the binary translator
are under the control of a server process. The non-native image is
run-time system includes an interpreter which is capable of handling
condition codes corresponding to the non-native architecute. A technique
is also provided to jacket calls between the two execution environents
and to support object based services. Preferred techniques are also
intermixed translation/optimization techniques are discussed.
    US PAT NO:
DATE ISSUED:
Sep. 1, 1998
Sep. 1,
      US PAT NO:
                                                                                                                5,801,014 [IMAGE AVAILABLE]
    ABSTRACT: "differentiation" "factor"-"5" ("GDF"-"5") is "GDF"-"5") is "GDF" ("GDF"-"5") is "GDF"-"5") is "GDF"-"5" ("GDF"-"5") is "GDF"-"5") is "GDF"-"5" ("GDF"-"5") is "G
                                                                                                                       5,774,620 [IMAGE AVAILABLE] L5: 11 of 33
Jun. 30, 1998
Fluoride glass fiber
Yoshiki Mishida, Mito Japan
Tedashi Sakamoto, Yokosuka Japan
Tedashi Sakamoto, Yokosuka Japan
Yasutake Ohishi, Mito, Japan
Nippon Telegraph and Telephone Corporation, Tokyo, Japan
Nippon Telegraph and Telephone Corporation, Tokyo, Japan
Osy708, 382 corp.)
Jan. 24, 1997
Jan. 84, 1997
Jan. 850
Spaneer 4 Frank
      US PAT NO:
DATE ISSUED:
TITLE:
INVENTOR:
      ASSIGNEE:
      APPL-NO:
DATE FILED:
ART-UNIT:
PRIM-EXMR:
LEGAL-REP:
      US PAT NO:
                                                                                                                         5.774.620 (IMAGE AVAILABLE)
      ABSTRACT:
      ABSTRACT: This invention relates to fluoride glass with a specific composition having wide infrared transmission. A fluoride optical fiber using this fluoride glass can give high efficiency with a low loss. The fluoride optical fiber having a second cladding on the outer periphery of a first cladding can adjust the refractive index of the first cladding suitably.
                                                                                                                     5,770,444 [IMAGE AVAILABLE] L5: 12 of Jun. 23, 1998 Growth differentiation factor-6 Se-Jin Lee, Baltimore, MD Thanh Huynh, Baltimore, MD Thanh Huynh, Baltimore, MD Thanh Huynh, Baltimore, MD Group 15, 1996 Papt. 15, 
    US PAT NO:
DATE ISSUED:
TITLE:
INVENTOR:
                                                                                                                                                                                                                                                                                                                                                                                                                                                  15: 12 of 33
      ASSIGNEE:
      APPL-NO:
DATE FILED:
ART-UNIT:
PRIM-EXMR:
LEGAL-REP:
                                                                                                                         5,770,444 [IMAGE AVAILABLE]
      US PAT NO:
                                                                                                                                                                                                                                                                                                                                                                                                                                                L5: 12 of 33
    ABSTRACT:
          Growth differentiation factor-6 (GDF-6) polypeptides, polynucleotides
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encoding GDF-6 polypeptides, and vectors and host cells containing GDF-6 encoding polynucleotides are provided. Nov. 8, 1994 181 Vasu S. Jagannathan David Romeo Knobbe, Martens, Olson & Bear, LLP 5,747.655 [IMAGE AVAILABLE] L5: 13 of May 5, 1998
May 5, 1998
Meurturin and related growth factors
Eugene M. Johnson, Jr., St. Louis, MO
Jeffrey D. Milbrandt, St. Louis, MO
Paul T. Kotthauer, St. Louis, MO
Paul T. Kotthauer, St. Louis, MO
Washington University, St. Louis, MO
Washington University, St. Louis, MO (U.S. corp.)
06/742,035
Nov. 1, 1996 US PAT NO: DATE ISSUED: TITLE: INVENTOR: US PAT NO: 5,693,779 [IMAGE AVAILABLE] ABSTRACT: An isolated polynucleotide of anti-dorsalizing morphogenetic protein (ADMP-1) is obtained from Xenopus. The protein is most closely related to human BMP-1. AMMP-1 functions as a modulator for dorsalizing influences, and prevents syndromes involving inappropriate proliferation of cissues. ASSIGNEE: APPL-NO: DATE FILED: ART-UNIT: PRIM-EXMR: ASST-EXMR: LEGAL-REP: 5,658,882 [IMAGE AVAILABLE]

L5: 20 of 33
Aug. 19, 1997
Methods of inducting formation of tendon and/or ligament
The Comprising administering BMP-12, BMP-13, and/or
MP-52
Anthony J. Celeste, Hudson, HA
Vicki A. Rosen, Brookline, HA
Mell M. Wolfman, Dover, Mafferson, NY
Douglas A. Melton, Lexington, MA
Cenetics Institute, Inc., Cambridge, HA (U.S. corp.)
President and Fellows of Harvard College, Cambridge, HA
(U.S. corp.)
08/362;670
09/362;670
181
Vasu S. Jagannathan
Elizabeth C. Kemmerer
Steven R. Lezar, Thomas J. DesRosier 102 Stephen Walsh Michael Pak Howell & Haferkamp, L.C. US PAT NO: 5,747,655 [IMAGE AVAILABLE] L5: 13 of 33 ABSTRACT:
A novel growth factor, neurturin, is disclosed. The human and mouse amino acid sequences have been identified. Human and mouse neurturin genomic DNA sequences have been cloned and sequences and the respective CDNA sequences; identified. The subcloning into vectors and the preparation of cells stably transformed with the vectors is also disclosed. In addition, methods for treating degenerative conditions using neururin, methods for particular to the conditions will be added to the conditions and the conditions are additional members of the neurturin-GDNF family of growth factors are also provided. INVENTOR: ASSIGNEE: APPL-NO: DATE FILED: US PAT NO: 5,739,307 [IMAGE AVAILABLE] L5: 14 of 33 Apr. 14, 1998 Polymouleotide encoding neurturin neurotrophic factor INVENTOR: Eugene M. Johnson, Jr., St. Louis, MO Jeffrey D. Milbrandt, St. Louis, MO Paul T. Kotzbauer, St. Louis, MO Patricia A. Lampe, St. Louis, MO Patricia A. Lampe, St. Louis, MO Washington University, St. Louis, MO (U.S. corp.) DATE FILED: ART-UNIT: 182, 1995 ART-UNIT: 182 Exphen Walsh 5.658.882 [IMAGE AVAILABLE] US PAT NO: ABSTRACT:
The present invention relates to methods for the induction of the present invention relates formation, wound healing and ligament and other tissue repair, using a composition comprising BMF-12, BMP-13 or MP-52, or combinations of the above. ASSIGNEE: APPL-NO: DATE FILED: ART-UNIT: PRIM-EXMR: ASST-EXMR: LEGAL-REP: 182 Stephen Walsh Michael D. Pak Howell & Haferkamp, L.C. US PAT NO: DATE ISSUED: TITLE: INVENTOR: US PAT NO: 5,739,307 [IMAGE AVAILABLE] L5: 14 of 33 ABSTRACT:
A novel growth factor, neurturin, is disclosed. The human and mouse amino acid sequences have been identified. Human and mouse neurturin genomic DNA sequences have been identified. Human and mouse neurturin genomic DNA sequences have been cloned and sequences and the respective CDNA sequences identified. The subcloning into vectors and the preparation of cells stably transformed with the vectors is also disclosed. In addition, methods for treating degenerative conditions using neurturin, methods for detecting ene alterations and methods for detecting and monitoring patient levels of neurturin ac provided. Hethods for identifying alternatives of the neurturin-GDNF family of growth factors are also provided. ASSIGNEE: APPL-NO: DATE FILED: ART-UNIT: PRIM-EXMR: ASST-EXMR: LEGAL-REP: US PAT NO: 5,635,372 [IMAGE AVAILABLE] ABSTRACT:
Purified BMP-15-related proteins and processes for producing them are
purified BMP-15-related proteins and processes for producing them are
disclosed. The proteins may be used in the proteins are also
disclosed. The proteins may be used in the recement of
cartilage and/or other connective tissue defects and in wound healing and
related tissue repair. US PAT NO: 5,733,121 [IMAGE AVAILABLE] L5: 15 of 33
DATE ISSUED: Har. 31, 1996
Mandible lock device
INVENTOR: APPL-NO: 05/627,947
DAT DAT HEED: NA 1, 1997
PRIM-EXAMS. NICHOLes D. Lucchesi
LEGAL-REP: Robert A. Spray, Patent Attorney 5,552,667 [IMAGE AVAILABLE]

5.52,667 [IMAGE AVAILABLE]

5.9. 3. 1996

Apparatus and method for generating photluminescence emission lines from rare-earth-element-doped CAF2 thin films over a SI-based substrate control of the standard of US PAT NO: DATE ISSUED: TITLE: US PAT NO: 5,733,121 [IMAGE AVAILABLE] L5: 15 of 33 ABSTRACT

Alock device for holding "open" position of a person's mandible (lower) jaw bone, for facilitating medical treatments such as emergency intubation and other procedures, dental work, etc., particularly on a patient who is either unconscious or for some other reason is not cooperated force lugs, carried on support-beam members, are for imposing a force oppositely against a person's mandible teeth set and upper or skull (maxilla) teeth set. The beam members are pivotally interconnected; and have an extension arm outwardly and rearwardly extending from the outer end, being a retroflex member which in use of the device extends goal of the device extends goal of the device of the state of the device extends goal of the device of the state of the device extends goal of manual grasping and other advantages. INVENTOR: ASSIGNEE: APPL-NO: DATE FILED: ART-UNIT: PRIM-EXMR: ASST-EXMR: LEGAL-REP: US PAT NO: 5,552,667 (IMAGE AVAILABLE) 5,728,679 (IMAGE AVAILABLE) L5: 16 of 33 Mar. 17, 1938 Mar. 17, 1938 Mar. 17, 1938 Mar. 17, 1938 MAP-15 compositions Anthony J. Celeste, Hudson, HA Jennifer L. Dube, Arlington, HA Karen M. Lyons, Sherman Oaks, CA Brigid Hogan, Brentwood, TN Genetics Institute, Inc., Cambridge, MA (U.S. corp.) Vanderbil University, Nashville, TN (U.S. corp.) 0293 (165 Mar.) 1997 Mar. 184 Mar. 1997 Mar. 184 Mar. 1997 Mar. 185 Mar. 1 US PAT NO: DATE ISSUED: TITLE: INVENTOR: ABSTRACT: A method and apparatus for producing photoluminescence emissions (68) a method and apparatus for promoin schere silicon or silicon/aluminum substrate shows narrow emission intended to the production of the for CaF.sub.2 with thickness as low as 0,2 .mu.m. The preferred embodiment is doped with a rare-earth such as Nd. US PAT NO: 5,539,702 [IMAGE AVAILABLE] L5: 23 of 33

Jul. 23, 1996

Test apparatus for semi-conductor memory device yeong-chang Ahn, Seoul, Republic of Korea Goldster Electron Co., Ltd., Choongchungbook-Do, Republic ORIFERD: 66 (Foreign corp.)

APPL-NO: 08/195,069 (Foreign corp.)

APPL-NO: 08/195,069 (Foreign corp.)

ART-UNIT: 243

ART-UNIT: 243

ART-UNIT: Chung

Fob. 14, 1994

LOWLE, PLINGER, Chung

LOWLE, PL APPL-NO: DATE FILED: ART-UNIT: PRIM-EXMR: ASST-EXMR: LEGAL-REP: US PAT NO: 5,728,679 [IMAGE AVAILABLE] ABSTRACT:
Purified BMP-15-related proteins and processes for producing them are
disclosed. DNA molecules encoding the BMP-15-related proteins are also
disclosed. The proteins may be used in the treatment of bone and
cartilage and/or other connective tissue defects and in wound healing and
related tissue repair. US PAT NO: 5,539,702 [IMAGE AVAILABLE] ABSTRACT:
A test apparatus for a semi-conductor memory device comprising a memory section having a plurality of memory cell arrays, the memory cell arrays receiving input data in parallel, a latch control circuit responsive to a write enable signal and are address signal for outputting a control signal memory section, an expected data latch circuit responsive to the control signal from the latch control circuit and a read enable signal for latching the input data while the input data is written into the memory section, an expected data latch circuit responsive to the control signal from the latch control circuit and a read enable signal for latching the input data while the input data is written into the memory generating solution of the season of the season of the control responsive to the test of the support of the season of the ABSTRACT: 5,721,210 [IMAGE AVAILABLE] L5: 17 of 33
Feb. 24, 1998
Cyclic cell adhesion modulation compounds
Thomas J. Lobl, Encinitas, CA
Shiu-Lan Chiang, San Diego, CA
Pina M. Cardarelli, Solana Beach, CA
Tanaba Sajvaku Co., Ltd., Osaka, Japan (foreign corp.)
Jun. 7, 1995 US PAT NO: DATE ISSUED: TITLE: INVENTOR: ASSIGNEE: APPL-NO: DATE FILED: ART-UNIT: PRIM-EXMR: ASST-EXMR: LEGAL-REP: 08/425,013 Jun. 7, 1995 181 Cecilia J. Tsang S. G. Marshall Fish & Richardson P.C. US PAT NO: 5,721,210 [IMAGE AVAILABLE] L5: 17 of 33 ABSTRACT:
Constraint of the second of the se 5,700,774 [IMAGE AVAILABLE]

Dec. 23, 1997

Compositions comprising bone morphogenic proteins and truncated parathyroid hormone related peptide, and methods of inducing cartilage by administration of same Vicki A. Rosen, Chestnut Hill, MA Genetics Institute, Inc., Cambridge, MA (U.S. corp.) Nat. 26, 1996

Mar. 26, 1996

Bavid L. Fitzgerald Elizabeth C. Kemmerer
M. C. Meinert, S. Lazar

5, 200,274 (IMAGE ANAILABLE) US PAT NO: DATE ISSUED: TITLE: APPL-NO: DATE FILED: ART-UNIT: PRIM-EXMR: ASST-EXMR: LEGAL-REP: INVENTOR: ASSIGNEE: APPL-NO: DATE FILED: ART-UNIT: PRIM-EXMR: ASST-EXMR: LEGAL-REP: US PAT NO: US PAT NO: 5,700,774 [IMAGE AVAILABLE] ASSTRACT.
Compositions of proteins with chondrocyte and cartilaginous tissue inducing activity, as well as method of using those compositions, are disclosed. The compositions comprise one or more proteins of the proteins of the particularly bone morphogenetic proteins (BMPs), in combination with parathyroid hormone related polypeptide (PTHP) or an equivalent PTH-like polypeptide. The compositions and methods are useful in the treatment of osteoarthritis, cartilage defects and in related tissue repair.

5,693,779 [IMAGE AVAILABLE] L5: 19 of 33
Dec. 2, 1997
Production and use of anti-dorsalizing morphogenetic
protein
Malcolm Moos, Jr., Betheada, MD
Marie Krinks, Rockville, MD
Shouwen Many, Rockville, MD
The United States of America as represented by the
Department of Health and Human Services, Washington, DC
(U.S. govt.)

US PAT NO: DATE ISSUED: TITLE:

INVENTOR: ASSIGNEE: APPL-NO:

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US PAT NO:
DATE ISSUED:
Apr. 2, 1996
Apr. 2,
                                                                                                                                                                                                                                                                                              corp.)
08/178,228
Jan. 6, 1994
262
                                                                                                                                                                                                                                                                                                   262
Edward L. Coles, Sr.
Madeleine Anh-Vinh Nguyen
Leonard Charles Suchyta, James W. Falk
                                                                                                                                                                                                                                                                                              S.504,780 [IMAGE AVAILABLE]
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             L5: 24 of 33
ABSTRACT: Action of the second second
                                                                                                                                                                                                                                                                                        5,480,845 [IMAGE AVAILABLE] L5:
Jan. 2, 1996
Fluorinated glasses
Gwendeel Mare, Saint Erblon, France
Gwendeel Mare, Saint Erblon, France
Jean-Twes Carre, Saint Erblon, France
Abdelouhed Soufiane, Casablanca, Morocco
Founes Messaddeg, Kenira, Morocco
188/125:91
Jure 1895
Jure 1995
Jure 1995
Jure 1898
Jere 1995
Jure 1995
Jure 1898
Jere 1995
Jure 1898
Jere 
          US PAT NO:
DATE ISSUED:
          TITLE:
INVENTOR:
ASSIGNEE:
APPL-NO:
DATE FILED:
ART-UNIT:
PRIM-EXMR:
ASST-EXMR:
LEGAL-REP:
```

1.5 : 20 of 33

L5: 21 of 33

L5: 23 of 33

ABSTRACT:

Flourinated glasses containing indium fluoride and MF.sub.2 fluorides in at least 70 moles 4, in which M denotes one or several elements of the group Bs. 5r. Ca. 2b. Said glasses contains, in the form of stabilizing fluoride, or else a mixture of both fluorides in a proportion not exceeding 20 mole 4. Variants of these compositions are also described.

5,475,698 [IMAGE AVAILABLE] L5: 26 of 33
Dec. 12, 1995
Light emission from rare-earth element-doped CaF.sub.2
thin-chen Cho, Richardson, TX
thin-chen Cho, Richardson, TX
08/124,637
06/124,637
0ct. 18, 1994
251
Loo Scott, Jr.
Michael K. Skrehot, James C. Kesterson, Richard L.
Donaldson US PAT NO: DATE ISSUED: TITLE: INVENTOR: ASSIGNEE: APPL-NO: DATE FILED: ART-UNIT: PRIM-EXMR: LEGAL-REP:

US PAT NO: 5,475,698 [IMAGE AVAILABLE]

ABSTRACT:
By growing semi-insulating CaF.sub.2 films (296) on a silicon substrate (260), forming superlattic structures (260) made of CaF.sub.2 :Rd and caf. and caf.

US PAT NO: 5,412.256 [IMAGE AVAILABLE] L5: 27 of 33

DATE ISSUED: May 2. 1995

MAY 3. 1995

MAY Bell Communications Research, Inc., Livir corp.) 08/178,428 Jan. 6, 1994 259 and P. Westin Richard Roseen Bichard Roseen Leonard Charles Suchyta, Loria B. Yeadon APPL-NO: DATE FILED: ART-UNIT: PRIM-EXMR: ASST-EXMR: LEGAL-REP: US PAT NO: 5,412,256 [IMAGE AVAILABLE] L5: 27 of 33

5.384 795 [IMAGE AVAILABLE] L5: 28 of 33 Jan. 24. 1995 Light emission from rare-earth element-doped CaF.sub.2 Chin-Chen cho, Richardson, TX Texas Instruments Incorporated, Dellas, TX [U.S. corp.) 07/524, 193. 30, 1992 US PAT NO: DATE ISSUED: TITLE: INVENTOR: ASSIGNEE: APPL-NO: DATE FILED: ART-UNIT: PRIM-EXMR: LEGAL-REP: 251 Leon Scott, Jr. Michael K. Skrehot, James C. Kesterson, Richard L. Donaldson US PAT NO: 5,384,795 [IMAGE AVAILABLE] L5: 28 of 33

ABSTRACT:
By Groving semi-insulating CaP, sub.2 films (272) on a silicon substante
By Groving semi-insulating caP, sub.2 films (272) on a silicon substante
By Groving sing superlattice structures (260) made of CaP, sub.2 inde made
other: semi-conductor layers (294) and by associating a co-depant with Nd
in the CaP, sub.2 films photoluminescence efficiency of CaP, sub.2 films is
increased. This permits using electrons to produce photons and
controlling optoelectronic devices using CaP, sub.2 films through voltage
variation.

5,169,657 [IMAGE AVAILABLE] L5: 29 of 33 Nov. 29, 1994 microlaser by doped thin films Silicon-based microlaser by doped thin films Garden Richardson, TX Walter H. Duncan, Dallas, TX Txeas Instruments Incorporated, Dallas, TX (U.S. corp.) 37945, 991 spp. 15, 1992 US PAT NO: DATE ISSUED: TITLE: INVENTOR: ASSIGNEE: APPL-NO: DATE FILED: ART-UNIT: PRIM-EXMR: LEGAL-REP: 01/943,355 Sep. 15, 1992 251 Leon Scott, Jr. Michael K. Skrehot, James C. Kesterson, Richard L. Donaldson L5: 29 of 3

L5: 29 of 33 US PAT NO:

ABSTRACT:
A silicon-based microlaser formed of rare-earth-doped CaF.sub.2 thin films has a semiconductor substrate material (240) and a CaF.sub.2 film layers (234) grown on semiconductor substrate material (240). The CaF.sub.2 film layer (234) is doped with a predetermined amount of rare-earth-dopant that is sufficient to cause a spectral emission from the CaF.sub.2 film layer (234) alwing a narrow linewidth when the CaF.sub.2 film layer (234) is optically or electrically pumped.

5,306,385 [IMAGE AVAILABLE]

Apr. 26, 1994
Method for generating photoluminescence emission lines from transition element doped CAF2 thin films over a Si-based substrate Charlest Char US PAT NO: DATE ISSUED: TITLE: INVENTOR: ASSIGNEE: APPL-NO: DATE FILED: ART-UNIT: PRIM-EXMR: ASST-EXMR: LEGAL-REP: 07/93-0, 1992
Sep. 30, 1992
Olik Chaudhuri
Ramamohan Rao Paladugu
Michael K. Skrehot, James C. Kesterson, Richard L.
Donaldson
L5: 30 of 1

US PAT NO:

ABSTRACT: A mathod and apparatus for producing photoluminescence emissions (68) from thin CaF.sub.2 (ilms grown on either silicon or silicon/aluminum substrate shows narrow emission linewidth and high emission intensities for CaF.sub.2 with thickness as low as 0.2 .mu.m. The preferred embodiment is doped with a race-earch such as Nd.

US PAT NO: DATE ISSUED: TITLE: INVENTOR: ASSIGNEE: APPL-NO: DATE FILED: ART-UNIT: PRIM-EXMR: ASST-EXMR: LEGAL-REP: 5,305,273 [IMAGE AVAILABLE] L5: 3:
Apr. 19, 1994
Semiconductor the manory device
Semiconductor the the thype, Japan
NEC Corporation, Tokyo, Japan (foreign corp.)
07/942,060
Sep. 10, 1992
Educan R. LaBoche L5: 31 of 33 251 Eugene R. LaRoche A. Zarabian Sughrue, Mion, Zinn, Macpeak & Seas

5,305,273 [IMAGE AVAILABLE] L5: 31 of 33

US PAT NO: 5,305,273 [IMAGE AVAILABLE] L5: 31 of 33

ABSTRACT: A semiconductor memory device has a matrix of memory cells interconnected by a plurality of column and row lines to form a channel between one of the plurality of column and row lines to form a channel between one of the column and row lines to form a channel between one of the pacific status. A sensing circuit connects or disconnects an output node where the current is supplied from the voltage source with the input node which indicates the status of the specified memory cell. A reference voltage generation circuit generates a signal to indicate the specified status of the selected generates a signal to indicate the specified status of the selected indicate the specified status of the selected first transistor under gate control by a reverse voltage of the input node voltage is connected and between the input node of the sensing circuit and the input node of the reference voltage generation circuit, a second transistor under gate control by the reverse voltage is also provided. The column line of the selected memory cell is charged by the voltage source of the reference voltage generation circuit was second transistor under gate control by the reverse voltage is also by the voltage source of the reference voltage generation circuit, as second transistor under gate control by the reverse voltage is also by the voltage source of the reference voltage generation circuit via the second transistor.

US PAT NO:
DATE 15SUED:
TITLETON:
ASSIGNEE:
ASSIGNEE:
ASPI-NO:
DATE FILED:
AFF. 5, 1994
Data read-out circuit for semiconductor memory device
read-out circuit for semiconductor memory DATE ISSUED: TITLE: INVENTOR: ASSIGNEE: ASPL-NO: DATE FILED: ART-UNIT: PRIM-EXMR: LEGAL-REP: Joseph A. Popek Sughrue, Mion, Sinn, Mcpeak & Seas 5,301,149 [IMAGE AVAILABLE] L5: 32 of 33 US PAT NO: 5,301,149 [IMAGE AVAILABLE] L5: 32 of 33

ABSTRACT:
A data read-out circuit in the semiconductor memory device has a sense a data read-out circuit in the semiconductor memory device has a sense a sense output voltage, a reference voltage genemative with the semiconductor outputs a reference voltage and comparison amplifier which compares the sense output voltage with the reference voltage and outputs an output voltage with the reference voltage and outputs an output voltage with the reference voltage and outputs an output voltage in the data read-out circuit further has a reference voltage man power supply source and in output model MOSFET receives the sense output voltage from the sense circuit. When the sense output voltage is a low level, the P-channel MOSFET becomes conductive and the reference output voltage in the power supply voltage and when a high sevel substantially equal to the power supply voltage and when a high sevel substantially equal to the power supply voltage and when output voltage is changed to a low level substantially equal to the ground potential. Therefore, the data read-out circuit has a wide operation margin and operates in low power consumption. S,039,886 [IMAGE AVAILABLE] L5: 32
Aug. 13, 1991
Current mirror type level converters
Kazuyuki Makamura, Tokyo, Japan
Kaganide Takada, Tokyo, Japan
Kaganide Takada, Tokyo, Japan
Kaganide Takada, Tokyo, Japan
(Foreign corp.)
May 25, 1990
254
Stanlay D, Hiller
History Rose Mambach
Whitham 6 Marhoefer US PAT NO: DATE ISSUED: TITLE: INVENTOR: L5: 33 of 33 ASSIGNEE: APPL-NO: DATE FILED: ART-UNIT: PRIM-EXMR: ASST-EXMR: LEGAL-REP: 5,039,886 (IMAGE AVAILABLE) L5: 33 of 33 US PAT NO: 5,039,880 (innue recomment)

A current mirror type level converter which makes it unnecessary to prepare the complementary signals of input signals by connecting a load transistor which is in the normally energized state regardless of the states of the input signals to the side where a mirror current flows and the load transistor also determines the output level. Further, a mirror the load transistor is sized to the side where a mirror current flows and the load transistor is shared among a plurality of current mirror type level converters, an output signal is fed back positively accompanying a delay, and a feedback transistor to whose control terminal is applied the positive feedback signal is increase in the speed of the operation of the converter. -> s mp 52 52 29697 MP 831400 52 347 MP 52 (MP (W) 52) => s 16 and (435/69-70/cclst or 530/350-399/cclst or 514/12/cclst) '435/69' IS NOT A RECOGNIZED CLASS/SUBCLASS VALUE FOR RANGE SEARCHING.
'435/70' IS NOT A RECOGNIZED CLASS/SUBCLASS VALUE FOR RANGE SEARCHING. => s 16 and (435/69.1-69.7/cclst or 530/350-399/cclst or 514/12/cclst) 4833 435/69.1-69.7/CCLST (9 TERMS) (435/69.1-NEXTE/CCLST) 12004 530/350-399/CCLST (86 TERMS) (530/350+MEXTES/CCLST) 1964 514/12/CCLST 5 L6 AND (435/69.1-69.7/CCLST OR 530/350-399/CCLST OR 514/12/ L7 CCL ST) => s 16 and (435 or 530 or 514 or 424)/clas 43584 435/CLAS 21671 530/CLAS 78209 514/CLAS 43781 424/CLAS 171 L6 AND (435 OR 530 OR 514 OR 424)/CLAS LB (FILE 'USPAT' ENTERED AT 08:02:22 ON 10 NOV 1998) 363 S MP52 OR (MP 52) OR GDF5 OR (GDF 5) OR ((GROWTH(1A)DIFFER L1 ENT L2 L3 L4 L5 T10 L6 L7 12/ 0 S L1 AND (530, 435, 514/COR) 0 S L1 AND (530, 435, 514/CLAS) 178 S L1 AND (530 OR 435 OR 514/CLAS) 33 S MP52 OR GDF5 OR GDF3 OR (GDF OR ((GROWTH(1A))DIFFERENTIA 347 S MP 52 5 S L6 AND (435/69.1-69.7/CCLST OR 530/350-399/CCLST OR 514/ 171 S L6 AND (435 OR 530 OR 514 OR 424)/CLAS => s 17 not 15 L9 3 L7 NOT L5 -> d bib ab 1-US PAT NO:
DATE ISSUED:
DATE ISSUED:
Oct. 22, 1996
Dendritic amplifier molecules having multiple terminal
Dendritic amplifier molecules having having multiple terminal
Dendriti 5,567,411 [IMAGE AVAILABLE] US PAT NO: DATE ISSUED: TITLE: INVENTOR: ASSIGNEE: APPL-NO: DATE FILED: ART-UNIT: PRIM-EXMR: ASST-EXMR: LEGAL-REP: 5,141,924 (IMAGE AVAILABLE) L9: 2 of 3 Aug. 25, 1992 Synthetic vasoactive intestinal peptide analogs David R. Bolin, Denville, NJ Hoffmann-La Roche, Inc., Nutley, NJ (U.S. corp.) 07/374,503 Jun. 30, 1999 181 Particular C. Cashion, Jr. T. D. Wessendorf Coorge M. Gould, William H. Epstein, Bruce A. Pokras

US PAT NO:

5,141,924 [IMAGE AVAILABLE]

ABSTRACT: Vascactive intestinal peptide analogs containing substitutions of appropriately selected amino acids at specific positions of the VIP

L9: 2 of 3

```
Mercapto-acylamino acid antihypertensives
Martin F. Haslanger, Ridgewood, NJ
Bernard R. Neustack, West Orange, NJ
Elizabeth M. Smith, Vezona, NJ
Schering Corporation, Kenilworth, NJ (U.S. corp.)
07/133,669
Dec. 16, 1987
  TITLE:
INVENTOR:
    ASIGNEE:
  APPL-NO:
DATE FILED:
ART-UNIT:
PRIM-EXMR:
ASST-EXMR:
LEGAL-REP:
                                                                               Dec. 16, 1987
121
Mary C. Lee
Robert C. Whittenbaugh
Anita W. Magatti, James Nelson
 US PAT NO:
                                                                               5.061,710 (IMAGE AVAILABLE)
                                                                                                                                                                                                                                                                                                L9: 3 of 3
 ABSTRACT:
Novel mercapto-acylamino acids useful in the treatment of hypertension and combinations of mercapto-acylamino acids and atrial natriuretic factors or angiotensin converting enzyme inhibitors useful for treating hypertension are disclosed.
 US PAT NO: 5,141,924 [IMAGE AVAILABLE] L9: 2 of 3 US-CL-CURRENT: **514/12**, 20; 530/324, 325; 930/170, DIG.800, DIG.820, DIG.821
 DETD (149)
-> d his: log v
                           (FILE 'USPAT' ENTERED AT 08:02:22 ON 10 NOV 1998)
363 S MP52 OR (MP 52) OR GDF5 OR (GDF 5) OR (GROWTH(1A)DIFFER
                                                               0 S L1 AND (530, 435, 514/COR)
0 S L1 AND (530, 435, 514/CLAS)
178 S L1 AND (530 OR 435 OR 514/CLAS)
33 S MP52 OR GDF5 OR GDF3 OR ((GDF OR ((GROWIH(1A)DIFFERENTIA
                                                              347 S MP 52
5 S L6 AND (435/69.1-69.7/CCLST OR 530/350-399/CCLST OR 514/
                                                               171 S L6 AND (435 OR 530 OR 514 OR 424)/CLAS
3 S L7 NOT L5
 U.S. Patent & Trademark Office LOGOFF AT 08:33:23 ON 10 NOV 1998
 FILE 'HOME' ENTERED AT 08:55:43 ON 10 NOV 1998
                              52 or (mp 52) or gold ...

0 MP52
3823 MP
11804 S
0 MP 52
0 MP 52
0 MP 52
9 GDF5
1 GDF3
1 GDF3
1 GDF3
1 GDF3
1 GDF3
2 GDF4
145979 DIFFERENTIATION
1377866 FACTOR
1591967 3
1272154 S
6 GDF OR ((GROWTH(1A)DIFFERENTIATION) (W)FACTOR)) (W) (3 OR 5)
2 MP52 OR (MP 52) OR GDF5 OR GDF3 OR ((GDF OR ((GROWTH(1A)DIFFERENTIATION)) (W)FACTOR)) (W) (3 OR 5)
2 MP52 OR (MP 52) OR GDF5 OR GDF3 OR ((GDF OR ((GROWTH(1A)DIFFERENTIATION)) (W)FACTOR)) (W) (3 OR 5)
3 MP52 OR (MP 52) OR GDF5 OR GDF3 OR ((GDF OR ((GROWTH(1A)DIFFERENTIATION)) (W)FACTOR)) (W) (3 OR 5)
 => s mp52 or (mp 52) or gdf5 or gdf3 or ((gdf or ((growth(la)differentiation)(w)factor))(w)(3 or 5))
  YOU HAVE REQUESTED DATA FROM 28 ANSWERS - CONTINUE? Y/(N):y
                        ANSWER 1 OF 28 MEDLINE Williamson C M: Beechey C V: Ball S T; Dutton E R; Cattanach B M: Tease C; Ishino F; Peters J Localisation of the imprinted gene neuronatin, Nnat, confirms and refines the location of a second imprinting region on mouse
                     Localisation of the impriment of the control of a second imprinting region on mouse crimes the location of a second imprinting region on mouse chromosomes. But the localism of a second imprinting region code: DKK. ISSN: 0301-0171.

Nine regions on six mouse autosomes are subject to imprinting and uniparental inheritance of any one of these regions results in mice with phenotypic anomalies. So far on distal Chromosome (Chr) 2 there is a unique imprinting region between 2H3 and 2H4 associated with imprinted gene, Nnat, has been identified which is expressed in the imprinted gene, Nnat, has been identified which is expressed in the revous system and maps to distal Chr 2. Nnat has been excluded as a candidate for either or both the behavioural phenotypes as it lies roximal to the 2H3-2H4 imprinting region. Here we have mapped Nnat to band 2H1 which is at least is Mb proximal to the previously less of which show differential expression according to parental origin. The localisation of Nnat to band H1 confirms and refines the map location of a second imprinting region on mouse Chr 2.
so
                     location of a second imprinting region on mouse Chr 2.

ANSWER 2 OF 28 MEDLINE
Brunet L J; KcMahon J A; McMahon A P; Marland R M
Brunet L J; KcMahon J A; McMahon A P; Marland R M
Brunet L J; KcMahon J A; McMahon A P; Marland R M
Brunet L J; KcMahon J A; McMahon A P; Marland R M
Brunet L J; KcMahon J A; McMahon A P; Marland R M
Brunet L J; KcMahon J A; McMahon A P; Marland R M
Brunet L J; McMahon A P; Marland R M
Brunet L J; McMahon A P; Marland R M
Brunet L J; McMahon A P; Marland R M
Brunet L J; McMahon A P; Marland R M
Brunet L J; McMahon A P; Marland R M
Brunet L J; McMahon A P; Marland R M
Brunet L J; McMahon A P; Marland R M
Brunet L J; McMahon A P; Marland R M
Brunet L J; McMahon A P; Marland R M
Brunet L J; McMahon A P; Marland R M
Brunet L J; McMahon A P; Marland R M
Brunet L J; McMahon A P; Marland R M
Brunet L J; McMahon A P; Marland R M
Brunet L J; McMahon A P; Marland R M
Brunet L J; McMahon A P; Marland R M
Brunet L J; McMahon A P; Marland R M
Brunet L J; McMahon A P; Marland R M
Brunet L J; McMahon A P; Marland R M
Brunet L J; McMahon A P; Marland R M
Brunet L J; McMahon A P; Marland R M
Brunet L J; McMahon A P; Marland R M
Brunet L J; McMahon A P; Marland R M
Brunet L J; McMahon A P; Marland R M
Brunet L J; McMahon A P; Marland R M
Brunet L J; McMahon A P; Marland R M
Brunet L J; McMahon A P; Marland R M
Brunet L J; McMahon A P; Marland R M
Brunet L J; McMahon A P; Marland R M
Brunet L J; McMahon A P; Marland R M
Brunet L J; McMahon A P; Marland R M
Brunet L J; McMahon A P; Marland R M
Brunet L J; McMahon A P; Marland R M
Brunet L J; McMahon A P; Marland R M
Brunet L J; McMahon A P; Marland R M
Brunet L J; McMahon A P; Marland R M
Brunet L J; McMahon A P; Marland R M
Brunet L J; McMahon A P; Marland R M
Brunet L J; McMahon A P; Marland R M
Brunet L J; McMahon A P; Marland R M
Brunet L J; McMahon A P; Marland R M
Brunet L J; McMahon A P; Marland R M
Brunet L J; McMahon A P; Marland R M
Brunet L J; McMahon A P; Marland R M
Brunet L J; McMahon A P; Marland R M A M
Brunet L J; McMahon A M
Brunet L J;
                     Incitie, may be potent requilatory molecules in the development of the dental attachment apparatus.

ANSWER 4 OF 28 MEDLINE
Kind D5: Korting H C. Schafer-Korting H
Effects of growth factors on the proliferation of human
PHARMAZIE, (1998 Jan) 153 [1] 517.

JOURNAL CODE: PAD. ISSN: 0031-7144

"Growth" "Ordifferentistion" is a new member of the
multifunctional peptide growth factor-betal suppose to mediate many
key avents in cell growth and development. The effects of
multifunctional peptide growth factors that appear to mediate many
key avents in cell growth and development. The effects of
actors EGT. TGP-ms: and other growth factors experimental growth
and fibroblasts compared with desowimetasons and calcipotriol have
been investigated. The proliferation rate was determined by a
hemocytometer, MTT assay and the incorporation of [3H]-thymidine.
Moreover cell cycle analyses were performed and the influence on
prenounced proinfiammentory effect. In keratinocytes, "CGDF":
"CGT": "CT" is simulated cell proliferation to a minor extent. The drug
all simulations are all simulations of the proliferation of a minor extent. The drug
all simulations are simulated cell proliferation to a minor extent. The drug
all simulations are simulated to the simulation of the simulation of keratinocyte basal medium (KBM), but not in keratinocyte growth
medium (KBM). TGP-bast all markedly inhibited the proliferation of
keratinocyte basal medium (KBM) but not in keratinocyte growth
medium (KBM). TGP-bast all markedly inhibited the proliferation of
keratinocyte sat concentrations > 1 mg/ml. Calcipotriol and
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desoximetasone also showed a dose-dependent cell growth inhibition in spidermal cell cultures. It-1 alpha synthesis was greatly suppressed by calcipotriol 10(-8)-10(-6) H. ECF at 10 ng/al; in contrast, strongly stimulated IL-1 alpha production. Neither ""GDF" - """ nor TG-Tbeta l had a significant effect on IL-1 alpha production in keratinocyte monolayer cultures. In Gibroblasts, """ GDF" - "" nor TG-Tbeta l had a significant effect on Alpha production in keratinocyte monolayer cultures. In this contrast, """ GDF" - "" or "" or

fibroblasts not only by increasing the S phase, but also by shortening the G1 phase of the cell cycle.

ANSWER 5 OF 28 MEDLINE
Caricasole A A; van Schaik R H; Zeinstra L H; Wierikx C D; van Gurp R J; van den Fol H; Looijenga L H; Oosterhuis J W; Pera M F; Ward A; divide the control of the c

testicular germ cell tumours. Thus, hoppy represents an embryonal carcinoma stem cell-associated marker both in vitro and in vivo.

ANSWER 6 OF 28 MEDLINE
Luyten FP
Cartilage-derived morphogenetic protein-1
INTERNATIONAL JOURNAL OF BIOCHEMISTRY AND CELL BIOLOGY, (1997 Nov)
23 JOURNAL COLOR LISSE: 1357-2725.
A new morphogenic secreted protein has been identified with direct evidence for its involvement in skeletal development and joint morphogenesis. Cartilage-derived morphogenetic protein-1 (Cdmp1) and its mouse homologue. ""Growth" ""Growth" ""Growth" ""Growth of the protein of the p

50

NT-3 hav have implications for the treatment of peripheral neuropathies.

ANSWER 8 OF 28 MEDLINE Letter S J. Witchcho M. Smith S G. Ficsor G Letter S J. Witchcho M. Smith S G. Ficsor G Letter S J. Witchcho M. Smith S G. Ficsor G Letter S J. Witchcho M. Smith S G. Ficsor G Letter S J. Witchcho M. Smith S G. Ficsor G Letter S J. Witchcho M. Smith S G. Ficsor G Letter S J. Witchcho M. Smith S G. Ficsor G Letter S J. Witchcho M. Smith S G. Ficsor G Letter S J. Witchcho M. Smith S J. Smith S J.

ANIMER 9 OF 28 MEDLINE

NANSWER 9 OF 28 MEDLINE

Sullivan A M: Opacka-Juffry J; Hotten G; Pohl J; Blunt S B

"Growth" / "differentiation" "actor"

ANIMER 9 OF 28 MEDLINE

Sullivan A M: Opacka-Juffry J; Hotten G; Pohl J; Blunt S B

"Growth" / "differentiation" "actor"

Boddson D; Protects digent S G; Blunt S

ANSWER 10 07 28 MEDLINE
Polinkowsky A; Robin N H; Thomas J T; Irons M; Lynn A; Goodman F R;
Reardon W; Kant S G; Brunner H G; van der Burgt I; Chitayat D;
McGeughran J; Donnai D; Luyten F P; Marman H
Mutettons in CDMPI cause autosomal dominant brachydactyly type C
MATURE (EMRITICS, (1997 Sep) 17 (1) 18-9.

Journal code: BRO. ISSN: 1061-4036. TI

SO

TI 50

in both chick choricallantoic membrane and rabbit cornea assays. In contrast, BMP-2 did not induce angiogenesis. In order to elucidate the mechanism of angiogenesis, we examined the effects of "GDP" on cultured bovine actric motochelial cells (BECs). "GDP" in one contraction of BCCs in a chemotactic activity and accelerated the migration of BCs in a chemotactic contraction of the contractio

50

Process.

NAMEWER 12 OF 28 MEDLINE
Bruneau 5; Mourtain P; Ross F M
Expression of contact, a new zebrafish DVR member, marks mesenchymal
cell lineages in the developing pectoral fins and head and is
requilated by retinoic acid. (1997 Jul) 65 (1-2) 163-73.

MECHANISMS OF DEFECTION (1997 Jul) 65 (1-2) 163-73.

MECHANISMS OF DEFECTION (1997 Jul) 65 (1-2) 163-73.

CONTACT, a new zebrafish transforming growth factor-beta (TGF-beta)
member is most closely related to mouse "GDF5" and to human
CDMP-1 responsible, when muttated, for limb brachypedism phenotype
dynamic spatial expression pattern in the pharymoreal arches and the
pectoral in buds that much prefigures cartilage formation. Within
the fin buds, contact expression is detected in the proximal
researchyme from which the endoskaton will develop. Exogeneously
rudinent in zebrafish embryos as well as contact expression along
the proximal margin of the fin mesen howing that both
endoskeleton and exoskeleton can be duplicated. AR

ANSWER 13 OF 28 MEDLINE Wolfman N M: Hattersley G: Cox K; Celeste A J; Nelson R; Yamaji N; Dube J L; DiBlasio-Saint B; Nove J; Song J J; Wozney J H; Rosen V Ectopic induction of tendon and ligament in rats by growth and differentiation factors 5, 6, and 7, members of the Tor-beta gene L1 AU TI

differentiation factors 5, 6, and 7, members of the TGP-beta gene family.

JOURNAL OF CLINICAL INVESTIGATION, 1997 Jul 15) 100 (2) 321-30.

JOURNAL OF CLINICAL INVESTIGATION, 1997 Jul 15) 100 (2) 321-30.

Little is known about the regulatory signals involved in tendon and ligament formation, and this lack of understanding has hindered alignment repair. Here we report that growth and differentiation factors (GDPs) 5, 6, and 7, members of the TGP-bet gene superfamily that are most related to the bone morphogenetic proteins, induce nectendon/ligament formation when implanted at ectopic sites in yivo. Analysis of tissue induced by "TGDP-" or proteins and the proteins of the second of 50

c, and 7 mRNAs suggest that these molecules are important regulatory components of synovial joint morphogenesis.

ANSWER 14 OF 28 MEDLINE

Nashich H

Identification of receptors for bone morphogenetic proteins.

KOKUNYO CARKOLI ZASSHI. THE JOURNAL OF THE STOMATOLOGICAL SOCIETY,

KOKUNYO CARKOLI ZASSHI. THE JOURNAL OF THE STOMATOLOGICAL SOCIETY,

JOURNAL code: [OF, ISSN: 0300-9149.

JOURNAL CODE: [OF, ISSN: 0300-914

ANSWER 15 OF 28 MEDLINE
Vortkamp A
Defining the skeletal elements.
CURRENT BIOLOGY, (1997 Feb 1) 7 (2) R104-7. Ref: 23
Journal code: 844. ISSN: 0960-9822.
A recent study of mice carrying different combinations of mutations in the genes for two bone morphogenetic factors (BMF9), BMF9 and "CDF9"*, indicates that BMF9 have specific and synergistic functions in the regulation of skeleton development.

L1 AU TI

"****CDF5****, indicates that BMPs have specific and synergistic functions in the regulation of skeleton development.

ANSWER 16 OF 28 MEDLINE
Storm E E: Kingsley D M
Joint patterning defects some properties protein (BMP) family.

Journal code: ECW. ISSN: 0950-1991.

The mouse brachypodism locus encodes a bone morphogenetic protein (BMP)-like molecule called "growth".

"GMF9-like molecule called "growth".

"G

limbs and sternum, and is required for normal generation of the functional articulations between many adjacent structures in the vertebrate skeleton.

ANSWER 17 OF 28 MEDLINE
Hall B K; Miyake T
Divide, accumulate, differentiate: cell condensation in skeletal development revisited.

INTERNATIONAL JOURNAL OF DEVELOPMENTAL BIOLOGY, (1995 Dec) 39 (6) BIOLOGY, (1995 Dec) 39 (6) BIOLOGY, (1995 Dec) 39 (7) BIOLOGY, (1995 Dec) 39 (8) JOURNAL OF DEVELOPMENTAL BIOLOGY, (1995 Dec) 39 (8) JOURNAL OF DECEMBER OF THE STATE OF THE STA

protein products of these genes accumulate as chondroblasts differentiate (see Fig. 2 for details). Not all the molecules present before, during of after condensation can be placed into causal sequences. Some however can. In Figure 3 we summarize the causal sequences discussed in this paper as they relate to initiation of condensation and to transit from condensation to overt causal sequences discussed in this paper as they relate to initiation of accordance and to transit from condensation following activation of at least three pathways: (1) Initiation of following epithelial-mesenchymal interactions by tenascin, BMP-2, TGF beta-1 and Msx-1 and -2. (2) Up-regulation of N-CAM by activin. (3)
Up-regulation of fibromectin by TGF-beta, further enhancing N-CAM accumulation (Fig. 3). It is by these three pathways that ensation to overt call differentiation is under both politive and negative control (Fig. 3). Syndecan blocks fibromectin and so blocks N-CAM accumulation, preventing accumulation of additional call

ANSWER 18 OF 28 MEDLINE Hotten G C; Matsumoto T; Kimura M; Bechtold R F; Kron R; Chara T; Tanaka H; Satoh Y; Okazaki M; Shirai T; Pan H; Kawai S; Pohl J S; Kudo A

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Tanaka H, Satch Y; Okazaki M; Shirai T; Pan H; Kawai S; Pohl J S; Rudo A; Mataka H, Shirai T; Pan H; Kawai S; Pohl J S; Rudo A; Mataka H, Shirai T; Pan H; Kawai S; Pohl J S; Rudo A; Mataka H; Mata

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EMPR-II or ActR-II.

ANSWER 20 OF 28 MEDLINE
Brickell PA

Hidox and vertebrate skeletogenesis: the long and the short of it.

Hidox and vertebrate skeletogenesis: the long and the short of it.

JOURNAL Code: 9YY 158: 0265-2247.

The development of the vertebrate skeleton is under complex genetic control, and good progress is being made towards identifying the genes responsible. A recent paper contributes to this progress by describing transgenic mice in which the homeobox-containing Miox generals here the structure of the Mook (-/-) mice have a range of skeletal features and the structure of the Mook (-/-) matation, which has similar effects on bones with very different embryological forigins and yet spares other bones completely, may hold clues to the mechanisms that shape the skeleton. Miox (-/-) mice, used in conjunction with other skeletal mutants, will be important tools for exploring these mechanisms further.

ANSWER 21 OF 28 MEDLINE Francis-West P H; Richardson M K; Bell E; Chen P; Luyten F; Adelfatta A; Bariow A J; Brickell P M; Wolpert L; Archer C W The effect of overexpression of BMPs and "COP" - "5" on the development of chick limb skeletal elements. ANNALS OF THE NEW YORK ACADEMY OF SCIENCES, (1996 Jun 8) 785 254-5. JOURNAL COEL SMN. 1830: 0077-8223.

ANNABLY OF THE NEW YORK ACADEMY OF SCIENCES, (1996 Jun 8) 785 254-5.

JOURNAL COSC: 55M. 153N: 0077-8923.

ANSWER 22 OF 28 MEDLINE
Thomas JT, Lin K Nandedkar M; Camargo M; Cervenka J; Luyten F P
A human chondrodysplasia due to a mutation in a TGF-bete superfamily
NATURE CENTERICS, (1996 Mar) 12 (3) 315-7.

JOURNAL COSTERICS, (1996 Mar) 13 (1996 June)

JOHN COSTERICS, (1996 Mar) 14 (1996 JUNE)

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development and represents the first human disorder attributable to a mutation in a TCP-beta superfamily member.

ANSWER 23 OF 28 MEDLINE
Krieglstein Ki Suter-Craziolara C; Hotten G; Pohl J; Unsicker K
Trophic and protective effects of "growth";
"differentiation": "factor" "55", a member of
the transforming growth factor-beta superfamily, on midbrain
ODRNAL OF NEUROSCIENCE RESEARCH, (1995 Dec) 42 (5) 724-32.

JOURNAL OF NEUROSCIENCE RESEARCH, (1995 Dec) 42 (5) 724-32.

JOURNAL OF NEUROSCIENCE RESEARCH, (1995 Dec) 42 (5) 724-32.

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JOURNAL OF NEUROSCIENCE RESEARCH, (1995 DEC) 42 (5) 724-32.

JOURNAL OF NEUROSCIENCE RESEARCH, (1995 DEC) 42

might become useful in the treatment of FD.

ANSWER 24 OF 28 MEDILINE
Krieglstein K; Unsicker K
Bovine chromaffin cells release a transforming growth
factor-bets-like molecule contained within chromaffin granules.
JOURNAL OF NEUNCHMENTS 100

JOURNAL OF NEUNCHMENTS 100

BOVING Chromaffin cells contain within their storage vesicles and
release upon cholinergic stimulation a complex mixture of proteins
and peptides. We present data suggesting that one of these proteins
resumbles transforming growth factor (TGT) beta in terms of its
TGF-beta is based on cells transfacted with a plasminogen activator

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inhibitor-1 promoter-luciferase construct. The assay is highly specific in detecting TGF-beta 1, -beta 2, and -beta 3 but does not detect several cytokines and growth factors, such as fibroblast growth factor-2, transforming growth factor-alpha, platelet-derived growth factor-1, or neurotrophin-3 or -4. Roseover, we show that this assay does not detect a wide range of the state o
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                                  Journal code: O7D. ISSN: 0039-9450.

ANSWER 26 OF 28 MEDLINE
Hotten G. Meidhardt H. Jacobowsky B: Pohl J
Cloning and expression of recombinant human "growth" /
Eloning and expression of recombinant human "growth" /
Eloning and expression of recombinant human "growth" /
DOURLAI Code: SYB. ISSN: 0006-291X.

The complete amino acid sequence of human "Crowth" (huGdfs), a new member of the TOT-bate superfamily, has been determined through initial degenerate PCR and subsequent cloning and nucleotide sequencing of genomic DNA and cDNA encoding the practices or and flanking regions. The huGdfs gene consists of only two coding exons. The protein is highly homologous to its mutine equivalently not be approximated by the procursor and flanking regions. The combinate to the superfamily homologous to its mutine equivalently exons. The protein is highly homologous to its mutine equivalently exons. The protein is highly homologous to its mutine equivalently exons. The protein is highly homologous to its mutine equivalently exons. The protein is highly homologous companies of only two coding exons. The protein is highly homologous and its mutine equivalently exons. The protein is highly homologous and the protein equivalently exons. The protein is highly homologous and the protein equivalent exons the expected processed dimeric mature protein. Antibodies against humans and the protein is a protein in the protein
                                      ANSWER 27 OF 28 MEDLINE Storm E E; Huynh T V; Copeland N G; Jenkins N A; Kingsley D M; Lee S
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                                  Corm E E: Huynh T V, Copeland N G: Jenkins N A: Kingsley D N: Lee S Limb alterations in brachypodism mice due to mutations in a new member of the TGF beta-superfamily (see comments).

Limb alterations in brachypodism (see comments).

See the total comments of the total comments of the TGF beta-superfamily (see comments).

Journal code: NSC. ISSN: 0028-0836.

The mutation brachypodism (bp) alters the length and number of bones in the limbs of mice but spares the axial skeleton. It illustrates the importance of specific genes in controlling the morphogenesis of the importance of specific genes in controlling the morphogenesis of isolation of three new members of the transforming growth factor-fact (TGF-bets] superfamily (growth/differentiation factors (""CGF").

"CGF" and sequencing the and show by mapping, expression of the total comments of the sequencing blood of the CGF's and the closely related GDF6 and GDF7 define a new subgroup of factors related to known bone- and cartilage-inducing molecules, the bone morphogenetic proteins (BMPS). Studies of BmpS mutations in short required for normal skeletal development. The highly specific skeletal alterations in bp and short ear mice suggest that different morphological features in the mammalian skeleton.

ANSWER 28 09 728 MEDLINE
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                             members of the BMP family control the formation of different morphological features in the mammalian skeleton.

ANSMER 28 OF 28 MEDLINE
NCPHERON AC: Lee S. J.

***COPPT**** - ***3**** and GDF-9: two new members of the transforming growth factor-beta superfamily containing a novel process of the transforming growth factor-beta superfamily containing a novel process of the transforming growth factor-beta superfamily were identified to source the stansforming growth factor-beta superfamily were identified using degenerate oligonucleotides corresponding to conserved regions among known family members. By Morthern analysis, "GDF*** - ***GDF*** - *****

***SP*** * ***Transcripts were detected primarily in adult bone marrow, spleading to the stansforming growth factor-beta superfamily were detected only in the ovary. Based on their CDNA sequences, the predicted '***GDF*** - ****** - ******* and GDF-9 polypaptides each contain a potential signal sequence for secretion, sequences, the predicted only in the ovary. Based on their CDNA sequences, the predicted superfamily in the cooperate superfamily. In the COPP** - ***** and GDF-9 polypaptides each contain a potential signal sequence for secretion, sequences, the results of the superfamily of the superfamily. In the COPP** - **** and GDF-9 polypaptides can be superfamily. The COPP** - **** - **** and GDF-9 polypaptides to the superfamily of the superfamily. The COPP** - **** - **** - **** and GDF-9 polypaptides contains a superfamily. The cool-terminal region of the superfamily is the superfamily of the superfamily in the colon of the superfamily in the colon of the superfamily in the colon of the superfamily in the 
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Studies on the metabolic products of Alternaria porri. Part 16.
Isolation and identification of tentoxin from Alternaria porri (Ellis) Cifarri
***Agric. Biol Chem.**
(1990), 54(9), 2449-50
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""Nobuhara, Masahiro""; Morishita, Hideaki; Tohyama, Junichi;
Ogino, Hiromi; Nii, Atsushi; Nagase, Yasukazu; Kanamori, Toshinori
Increased expression in Escherichia coli of human tumor necrosis
factor through in vitro mutagenesis around the initiation codon
"Angric. Biol. Chem." (1988), 52(6), 1331-8
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Imai, Hiroyuki; Aishima, Tetsuo; ***Nobuhara, Akio***
Key factors in "Ketsuobushi" (dried bonito) aroma formation
"Agric. Biol. Chem."* [1982], 46(2), 419-28
CODEN: ABCHARC; ISSN: 0002-1369
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The present invention relates to a methanediphosphonate derivative, its manufacturing process, and pharmaceutical applications, that is represented with the following formula: #STRINES mention is a sixter represented with the following formula: #STRINES wherein D is a sixter represents an alkyl group, alkyl group having a hetero atom as a substitution group, an aryl group or an acyl group method and an integer of 1 to 5, and R. sup.1, R. sup.2, R. sup.3 and R. sup.4 in the sup.4 in th
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                        Those . . . activity against (chronic) articular rheumatism, multiple rheumatoid arthritis, osteoarthritis, scapular periarthritis, neck-shoulder-arm syndroms, intervertebra disk disorders, lumbago, tendonitis and peritendonitis, "arthrosteitis", scapulohumero-periarthritis, fibrositis, muscle pain, neuralpia, gout post-surgical periarthritis, fibrositis, muscle pain, neuralpia, gout post-surgical action of the periarthritis, antirheumator, and antipyle peritarthritis, antirheumator, and antipyle peritarthritis, antirheumator, and antipyle peritarthritis, antirheumator, antirheumator,
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Nethanediphosphonic acid derivative, process for
Norio Kawabe, Tujisawa, Japan
Hiromi Uchiro, Kamakura, Japan
Teruo Nakadate, Yokohama, Japan
Masahiko Tanahashi, Kamakura, Japan
Toray Industries, Inc., Tokyo, Japan (foreign corp.)
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                ABSTRACT:
        ABSTRACT:

A methane diphosphonic acid derivative represented by the general formula (1): $SSTR18# wherein, X and Y are defined in the specification, mercursents an integer of 0 to 3 n represents an integer of 0 to 3 n represents and the specification, and each X of the (X) sub.m and each Y of the (Y) sub.m may be either identical or different; . . represents a double bond or single bond: A is --(CH. sub.2)a--(D)b--(CH. sub.2)c-- (wherein D is sulfur oxygen, NH, alkyl-substituted M, or CH. sub.2)c- (wherein D is sulfur oxygen, NH, alkyl-substituted M, or CH. sub.2)c- and care integers of 0 to 10 and b sulkyl-substituted M, or CH. sub.2)c- and B does not exist when A represents --(CH. dbd.CH)d--(CH. dbd.), B refers to a hydrogen atom, slxly group, anino group, menoalkylamino group, cialkylamino group, slxly group, anino group, menoalkylamino group, slxly group, anino group, beach of R. sup.1, R. sup.2, rialkylaloxy group, or sayloxy group, an each of R. sup.1, R. sup.2, R. sup. 1 sup. 1 sup. 1 sup. 1 sup. 1 sup. 2 sup. 1 sup. 3 sup. 3 sup. 3 sup. 3 sup. 3 sup. 3 sup. 4 sup. 4 sup. 4 sup. 4 sup. 5 sup. 4 sup. 5 su
                DETDESC:
                DETD(18)
            Those preventive activity against (chronic) articular rheumatism, rheumatoid polyarthritis, osteoarthritis, scapular perlarthritis, neck-shoulder-arm syndrome, intervertebral disk disorders, lumbago, tendinitis and pertendinitis, "arthrosteitis", stiff and painful shoulder, fibrositis, muscle pain, neuralpia, gout, post-surgical and postrzeumatic inflammation and swelling (antinflammatory drugs, antiframmatic drugs, antircheumitic.
        US PAT NO:
DATE ISSUED:
JUL. 18, 1920
Hethanediphosphonate derivative, its manufacturing process
INVENTOR:
NOTIO Kawabe, Kamakura, Japan
Hiromi Uchiro, Kamakura, Japan
Hiromi Uchiro, Kamakura, Japan
Hasanilo Tanahashi, Manufara, Japan
Hasanilo Ta
            ASSIGNEE:
APPL-NO:
DATE FILED:
ART-UNIT:
PRIM-EXMR:
ASST-EXMR:
LEGAL-REP:
                                                                                                                                                                                                                                Johann Richter
Michael G. Ambrose
Austin R. Miller
            US PAT NO:
                                                                                                                                                                                                                            5,527,940 [IMAGE AVAILABLE]
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     L2: 3 of 5
        ASSTRACT:
The present invention relates to a methanediphosphonate derivative, its manufacturing process and pharmaceutical applications, that is manufacturing process and pharmaceutical applications, that is at the process of the p
            BSUM (37)
        yout, post-surgical variant (antiinflammatory agents, single surgical variant (antiinflammatory agents, s. 3.19,100 [IMAGE AVAILABLE] L2: 4 of 5 Juny 1994 -- L-carbamoyl-2-pyrrolidone analogues Susumu Kamata, Hyogo, Japan Nobuhiro Haga, Osaka, Japan Toshihi ko Okada, Nara, Japan Hirokuni Joyaman Kasa, Japan Saichi Matsumoto, Osaka, Japan (foreign Ososph Paul Russella Saichi Matsumoto, Osaka, Japan Sa
        US PAT NO:
DATE ISSUED:
TITLE:
INVENTOR:
        ASSIGNEE:
        APPL-NO:
DATE FILED:
                                                                                                                                                                                                                                    Joseph Paul Brust
Wenderoth, Lind & Ponack
        US PAT NO:
                                                                                                                                                                                                                            5,319,100 [IMAGE AVAILABLE]
    ABSTRACT:
ABSTRACT:
The present invention relates to novel 3-benzylidene-1-carbamoyl-2-
pyrroridone analogues having advantage anti-inflammatory activities,
which is represented by the formula: #$straits wherein R.sup.l and R.sup.2
each is independently hydrogen, alkyl, alkoxy, or halogen; R.sup.3 is
hydrogen or acyl; R.sup.4 is hydrogen, alkyl, hydroxy, alkoxy, cyano, or
hydrogen or acyl; R.sup.4 is hydrogen, alkyl, hydroxy, alkoxy, cyano, or
arallyl, heterocyclic group, substituted pendent by the company of acyl,
arallyl, heterocyclic group, substituted pendent by the company of acyl,
or aralkyl, or aralkyl, or taken together with the adjacent nitrogen atom may form heterocyclic
group which may contain N, O, and/or S, and X and Y send is independently
or abstituted or unsubstituted inmino, or substituted or unsubstituted
anti-inflammatory agent which is useful for the treatment of chronic
inflammation and has little side effect, e.g., stomach disease.
```

L2: 1 of 5

SUMMARY:

BSUM(4)

Prior being no effective to progressed rheumatic diseases such as osteonocrosis, the improvement in chronic rheumatic diseases, or the treatment of "arthrostellis" etc. and of having potent activities to induce pastric ulcer caused by the inhibition of the production of prostaglandin E.sub. 2.

5,319,099 [IMAGE AVAILABLE]

Jun. 7, 1994

J-benrylidene-1-carbamoy1-2-pyrrolidone compounds useful as antiinflammatory agents

Subumu Kamata. Hyogo, Japan

Nobuhiro Haga, Osaka, Japan

Nobuhiro Okada, Nara, Japan

Hirokuni Jyoyama, Nara, Japan

Saichi Maraumoto, Osaka, Japan

Saichi Maraumoto, Osaka, Japan

Orabiniko Okada, Nara, Japan

Saichi Maraumoto, Osaka, Japan

Orabiniko Okada, Nara, Japan

Saichi Maraumoto, Osaka, Japan

Orabiniko Okada, Nara, Japan

Drabiniko Okada, Nara, Japan

Saichi Maraumoto, Osaka, Japan

Orabiniko Okada, Nara, Japan

Drabiniko Okada, Nar US PAT NO: DATE ISSUED: TITLE: INVENTOR:

ASSIGNEE:

APPL-NO: DATE FILED: ART-UNIT: PRIM-EXMR: LEGAL-REP:

US PAT NO: 5,319,099 [IMAGE AVAILABLE]

ABSTRACT:

The present invention relates to novel 3-benzylidene-1-carbamoy1-2pyrroridone analogues having advantage anti-inflammatory activities,
which is represented by the formula: #857R1849 wherein R.sup.1 and R.sup.2
each is independently hydrogen, alkyl, alkoxy, or halogen; R.sup.3 is
hydrogen or acyl; R.sup.4 is hydrogen, alkyl, hydroxy, alkoxy, cynno, or
hydrogen or acyl; R.sup.4 is hydrogen, alkyl, hydroxy, alkoxy, cynno, or
aralkyl, heterocyclic group, substituted or unsubstituted amino, or
CR.sup.7 wherein R.sup.7 is hydrogen, alkyl, aryl, acyl, or aralkyl, or
taken together with the adjacent nitrogen atom may form heterocyclic
group which may contain N, O, and/or S, and X and Y each is independently
O, S, substituted or unsubstituted imino, or substituted or unsubstituted
anti-inflammatory agent which is useful for the treatment of chronic
inflammation and has little side effect, e.g., stomach disease.

SUMMARY:

BSUM(4)

Prior being no effective to progressed rheumatic diseases such as osteonecrosis, the improvement in chronic rheumatic diseases, or the treatment of "arthrostetiis" etc. and of having potent activities to induce gastric ulcer caused by the inhibition of the production of prostaglandin E.sub.2.

US PAT NO: 5,683,992 [IMAGE AVAILABLE] L2: 1 of 5 SUMMARY:

BSUM (34)

Those diseases at which compounds of the present invention are directed are inflammatory diseases, pain diseases, skin diseases, respiratory organ diseases, liver diseases, infections, autoimmune diseases, ischemic organ disorders and bone metabolic diseases. For example, the present cryan disorders and bone metabolic diseases. For example, the present cryan disorders and bone metabolic diseases. For example, the present cryan disorders are preventive archivity against chorus having superior diseases. For example, the present critisty, against chorus having dispersional prevention of the present of archivity against chorus having superior diseases, and archivitis, neck-shoulder-arm syndrome, increvertebelling (antinflammatory agents, antirheumatics inflammation and swelling (antinflammatory agents, antirheumatics, antiarthritics, analgesics and antipyretics), or psortasis, asthma, pulmonary sarcoidosis, viral hepstitis, human immunodificiency viral infections, protoroam infactions, ischemic heart disease, ischemic paget's disease, before assertion (bone metabolic disease drugs).

5,319,100 [IMAGE AVAILABLE] US PAT NO:

SUMMARY: BSUM (4)

Prior anti-inflammatory agents of non-steroid type are effective to the improvement in the early stages of rheumatism and acute inflammation, however, have some defects of being no effective to progressed rheumatic diseases such as osteonecrosis, the improvement in chronic rheumatic diseases or the treatment of "arthroatetis" etc., and of having the production of prostaglandin E.suby.2 (PoE.suby.2).

=> e rheumati?

E#	FILE	FREQUENCY	TERM
E1 E2 E3 E4 E5 E6 E7 E8 E9 E10 E11	USPAT USPAT USPAT USPAT USPAT USPAT USPAT USPAT USPAT USPAT USPAT USPAT USPAT USPAT	3 6 0> 2177 21 1 17 32 28 2	RHEUMATHERAPY/BI RHEUMATHOD/BI RHEUMATHOD/BI RHEUMATHO/BI RHEUMATHO/BI RHEUMATHO/BI RHEUMATHOA/BI
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=> e 273 274 275 276 277 278 279 280 281 282 283 284	USPAT	121121331211	RHEUON/BI RHEUS/BI RHEUSUS/BI RHEUTHAMOID/BI RHEUTHIUM/BI RHEUTHIUM/BI RHEUWIM/BI RHEWWIM/BI RHEWWIM/BI RHEWWIM/BI RHEWWIM/BI RHEWWIM/BI RHEWWIM/BI RHEWIM/BI

(FILE 'USPAT' ENTERED AT 11:45:02 ON 24 NOV 1998)
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L2

=> s (method and (rheumatic? or RHEUMATISM? or RHEUMATOID?))/clm

593144 METHOD/CLM
149 RHEUMATICT/CLM
62 RHEUMATIST/CLM
152 RHEUMATIST/CLM
153 RHEUMATIST/CLM
834 (METHOD AND (RHEUMATIC? OR RHEUMATISM? OR RHEUMATOID?))/CLM

=> s (method and ((radicular or arvecular)(2a)defect#))/clm

593144 METHOD/CLM

0 RADICULAR/CLM

10 RADICULAR/CLM

5499 DEFECT#/CLM

0 (NADICULAR OR ARVECULAR) (2A) DEFECT#

0 (METHOD AND ((RADICULAR OR ARVECULAR) (2A) DEFECT#)/CLM

	FILE	PREQUENCY	TERM
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1	· USPAT	7	ARVE/BI
2	USPAT	1	ARVEC/BI
3	USPAT	0>	ARVECULAR/BI
4	USPAT	1	ARVED/BI
5	USPAT	2	ARVEDI/BI
6	USPAT		ARVEDSON/BI
7	USPAT		ARVEE/BI
8	USPAT		ARVEILER/BI
9	USPAT	6	ARVEILLER/BI
10	USPAT		ARVEL/BI
īi	USPAT		ARVELA/BI
12	USPAT		ARVELIZ/BI

=> s (method and radicular)/clm

593144 METHOD/CLM 18 RADICULAR/CLM 3 (METHOD AND RADICULAR)/CLM

-> d bib ab clm 1-

US PAT NO:
DATE ISSUED:
Hay 20, 1997
Hethod and a quick-opening wrapping for objects
Georges Cathala, Bernay, France
Georges C

US PAT NO: 5,630,307 (IMAGE AVAILABLE)

ABSTRACT:

The invention relates to a method of making a quick-opening wrapping for packaging objects, characterized in that it comprises the following steps state of the following steps and the following steps are the following steps and the following steps are the following steps and the following steps are the following steps are the following steps and the following steps are the following steps and the following steps are the following steps and the following steps are the following step

CLAIMS:

CLMS(1)

What is claimed is:

what is claimed is:

1. A "method" of making a quick-opening wrapping for packing objects, comprising the steps of: preparing a composition by adding an embrittling agent to at least one extrudeble plastics macrial. The concentration by weight of said monoextruding said composition by blow extrusion with a take-off ratio within the range of 1.5 to 30 and a blow-up ratio within the range of 1.5 to 30 and a blow-up ratio within the range of 1.5 to 30 and a blow-up ratio within the range of 1.5 to 30 and a blow-up ratio within the range of a side of the extrusion of a side of the concentration of the extrusion on; and surrounding at least in part said objects by a portion of said film, and providing tear initiator means in said portion of said film whereby it is possible to tear said wrapping in the direction that is

2. The **method** according to claim 1, wherein said embrittling agent is an ionomer based on an acid copolymer.

3. The **method** according to claim 2, wherein said ionomer is based on an acrylic or a methacrylic acid precursor neutralized by cations.

4. The **method** according to claim 3, wherein said cations are selected from the group consisting of zinc and sodium cations.

5. The **method** according to claim 2, wherein said acid copolymer is selected from the group consisting of ethylene acid and ethylene methacrylic acid.

CLMS (6)

6. The **method** according to claim 5, wherein said acid copolymer is at least partially neutralized with zinc or sodium cations.

7. The **method** according to claim 1, wherein said base plastics material is constituted by a plastics material selected from the group consisting of **radicular** polyethylenes, linear polyethylenes, and high density polyethylenes.

8. The ""method" according to claim 7, wherein the plastics material is constituted by a mixture of at least two of said compounds. CLMS (9)

9. The **method** according to claim 1, wherein the melt index of the components used lies in the range 0.2 to 15. CLMS (10)

10. The ""method" according to claim 9, wherein the melt index of the components used lies in the range 0.2 to 2, whereby said film is shrinkable.

```
comprising the steps of:

A *method** of making a quick-opening wrapping for packing objects, comprising the steps of:

Greparing a composition by adding an embrittling agent to at least one greparing a composition by adding an embrittling agent being within the tange of 15 to 35 and of the embrittling agent being within the trange of 15 to 15 to 10. Whereby the struded film is tearable in the extrusion within the range of 1.5 to 10. Whereby the struded film is tearable in the extrusion direction and in a direction orthogonal to the extrusion direction, and approviding tear initiator means in bid port of the strust of the structure of the providing tear initiator means in bid port of the structure of the providing tear initiator means in bid port of the structure of the providing tear initiator means in bid port of the structure of the providing tear initiator means in bid port of the structure of the structure
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CLMS (12)

12. The ""method" according to claim 1, wherein the thickness of the monoextruded film is within the range of 20 to 150 microns.

CLMS (13)

13. The **method** according to claim 11, wherein the thickness of the monoextruded film is within the range of 20 to 150 microns.

4,622,011 [IMAGE AVAILABLE] L5: 2 of 3 Nov. 11, 1986 Redicular post head comprising reversible retention and Pietre Mellar, 62, bouleverd Gambetta, 06000 Nice, France 06/643,61, 1984 US PAT NO: DATE ISSUED: TITLE: INVENTOR: APPL-NO: DATE FILED: ART-UNIT: PRIM-EXMR: LEGAL-REP: John J. Wilson Dowell & Dowell

US PAT NO: 4,622,011 [IMAGE AVAILABLE]

ABSTRACT:

ASSTRACT:

A radicular post cooperating with a resilient dental impression for use in preparing a cast to be fixed to a cooth having post happed to receive the post, each post having a conical pat for entering heped to receive the post as the post having a conical pat for entering heped to help and having a cylindrical part aligned on the longitudinal axis of the post and extending from the tooth when the post is seated in the post hole, the cylindrical parts of the posts having retention grooves hole, the cylindrical parts of the posts having retention grooves the post of the posts having retention grooves are sufficiently as the post of the post of the posts having retention grooves are grown as a sufficient to the post of the grooves are sufficiently as the post of the grooves in associated posts, the shapes of the grooves and rings and the resilience of the impression compound being selected and rings and the resilience of the impression compound being selected re-positioned within the holes in the impressions without damaging the impressions and while achieving accurate positioning of the posts theein because the parts of the posts are symmetrical about their axes.

CLAIMS:

CLMS(1)

I claim:

I claim:

1. The combination of a "radicular" post and a resilient dental impression for use in preparing a cap to be fixed to a tooth having a post hole shaped to receive the post.

1. The combination of a "radicular" post and a resilient dental impression for use in preparing a cap to be fixed to a tooth having a post hole shaped to receive the post.

1. The post is a cap to the post to the post to the post is seated in the post hole and the cylindrical part having recention groove means circularly disposed around it, and the conical part and the cylindrical part and the groove means being fully symmetrically the post is a contract of the contract of the cylindrical part and the provided the contract of the post is a contract of the post is a contract of the post is a contract of the post, the shape of the groove means and the resilience of the impression being selected such that the cylindrical molded hole in the impression without damaging the impression and while achieving accurate positioning of the post therein because the parts of the post are symmetrical about said longitudinal axis.

CLMS(2)

2. The "method" of preparing a dental impression for making a cap to be fixed to a tooth having a post hole shaped to receive a "redicular" post, comprising the steps of:
installing and seating a post in the post hole, the post having a conical part for entering the post hole and having a cylindrical part groove means circularly disposed around it, and the conical and cylindrical parts being symmetrically disposed about the longitudinal axis of the post;
molding resilient impression compound over the tooth and the projecting molding resilient impression compound over the tooth and the projecting an internal hole fitting said cylindrical part of the post and having ring means in the internal hole fitting the groove means; and having removing the molded impression and the post from the tooth, the shape of the groove means and the resilience of the ring means within the internal hole fitting the groove means and the resilience of the ring means within the event that the post remains in the tooth during removal of the event that the post remains in the tooth during removal of the remains in the tooth during the proper properly positioned therein during subsequent laboratory steps because the parts of the post are orientation in terms of angle of rotation in the impression about said axis.

US PAT NO:
DATE ISSUED:
Jan. 25, 1972
METHOD OF MAKING DENTAL BRIDGES, DENTAL CROWNS, AND DENTAL
CORONO-RADICULAR RETAINERS
EUgen COSAL, Bucharest, Romania
Ioan Covaci, Bucharest, Romania
Clanica Si Policinica de Stomatologie Ortopedica,
Bucharest, Romania
Clanica Si Policinica de Stomatologie Ortopedica,
Bucharest, Romania
APPL-NO:
DATE FILED:
APPL ADIC 14, 1969
PRIN-EXMES ROBALT 14, 1969
PRIN-EXMES ROBALT 24, 1969
PRIN-E

US PAT NO: 3,636,632 [IMAGE AVAILABLE] L5: 3 of 3

CLAIMS:

CLMS (1)

We claim:

We claim:

1. A "method" of making a dental bridge, comprising the steps of: forming a negative cast of the mouth area adapted to receive said prosthesis with a casting material? It hereafter forming a hard plaster positive model of said region by introducing plaster into only a limited region of said cast corresponding to the tooth-stump area and the alveolary creat area corresponding to the tooth-stump area and the alveolary creat area from the contractive model of said cast from which the tooth-stump model is removable, and removing the tooth-stump model from said deset from said state and upon setting withdrawing said model from said hydrocolloid material upon setting casting a seversible hydrocolloid material about said model and withdrawing said model from said hydrocolloid material upon setting casting in said negative impression an investment vaterial to form a positive representation and shapping said layer to the configuration of the prosthesis to be shapping said layer to the configuration of the prosthesis to be forming a lost-wax casting mold about the positive representation with the wax layer thereon and casting a molten metal in said mold to produce the prosthesis, said reversible hydrocolloid negative impression being formed from said reversible hydrocolloid negative impression being formed from said reversible hydrocolloid negative impression of investment material forming cores corresponding to the teath on either side of said alveolary crest area and of a dimension less than that of the teath to be formed on said prosthesis, said thin layer of wax being built on said cores to the anatomical shape of teeth by applying a wax band of predecement of the teeth on either side of said drives the prosthesis.

```
    The **method** defined in claim 1 wherein said wax band has a
thickness of about 0.4 mm.

                                                 **method** of making a corono-**radicular** retainer comprising s of:
          3. The the steps
          3. The "mathod" of making a corono-"radicular" retainer comprising the steps of gractive cast of the mouth area adapted to receive said forming a negative tast of the mouth area adapted to receive said the retaining a negative said sating material, thereafter forming a plaster positive model of said region by introducing plaster into said cast; casting a reversible hydrocoloid material about said model and thereof to form a reversible hydrocoloid oid material to form a positive representation from said investment material; building up a thin layer of wax on said positive representation and positive representation and respective representation and layer of wax being applied to said positive representation and respective representation respecti
        CLMS (4)
        4. The ""method" defined in claim 3 wherein said taper dowel has a
threaded end and is fastened to said container by a screwthread into this
end, said model being withdrawn from said dowel and said negative
impression and said investment material being cast in said negative
impression around said dowel.
      CLMS(5)

5. A "method" of making a dental prosthesis, such as a dental bridge, dental crown or corono-"tadicular" retainer comprising the steps of: forming a negative cast of the mouth areas adapted to receive said prosthesis with casting material; thereafter forming a plaster positive model of said region by introducing plaster into said cast; erial about said model and cast, erial about said model and thereof to form a reversible hydrocolloid negative impression; casting in said negative impression an investment material to form a positive representation from said investment material to form a positive representation from said investment material; building up a thin layer of wax on said positive representation and forming a lost-wax casting mold about the positive representation with the wax layer thereon and casting a molten metal in said mold to produce the prosthesis, said model being mounted on a wall of said to produce the prosthesis, said model being mounted on a wall of said chiral process of the prosthesis, said model is aid molten each a carried a chromium-cobalt alloy, said investment material being cured at an elevated temperature prior to the build up of said layer of wax thereon.
      CLMS (5)
     => d his
                              (FILE 'USPAT' ENTERED AT 11:45:02 ON 24 NOV 1998)
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3 S (METHOD AND RADICULAR)/CLM
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      >> s TGFbeta# or (tgf beta#) or (TRANSFORMING GROWTH FACTOR# beta#);s bmp# or {((bone morphogen?)o osteogenic)(w)(protein# or polypepride#)}
                                          701 BMP# 32713 BONE 991 MORPHOGEN7 991 MORPHOGEN7 485 BONE MORPHOGEN7 (10 OBEC (W) MORPHOGEN7) 713 BONE (W) MORPHOGEN7) 7575 PROTISING 19436 POLITEPITIES 485 ((BONE MORPHOGEN7) OR OSTEOGENIC) (W) (PROTEIN# OR POLYPEPTIDE 485 ((BONE MORPHOGEN7) OR OSTEOGENIC) (W) (PROTEIN# OR POLYPEPTIDE 485 ((BONE MORPHOGEN7) OR OSTEOGENIC) (W) (PROTEIN# OR POLYPEPTIDE
                                                        870 BMP# OR (((BONE MORPHOGEN?)OR OSTEOGENIC)(W)(PROTEIN# OR PO
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  -> d bib ab 1-
 US PAT NO:
DATE 15SUED:
TITLE:
Sep. 15, 1998 owth/differentiation factor
TITLE:
DRAW INCOME.

INVENTOR:
DRAW elige Neitherdt, Marburg, Federal Republic of Germany
Rolf Bechtold, Heidelberg, Federal Republic of Germany
ASSIGNEE:
ASSIGNEE:
APPL-NO:
DATE FILED:
APT NO:
DATE FILED:
ART-UNIT:
180 UIB
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  APPL-NO:
DATE FILED:
ART-UNIT:
PRIM-EXMR:
ASST-EXMR:
LEGAL-REP:
                                                                             Prema Mertz
Nikaido Marmelstein Murray & Oram LLP
  US PAT NO:
                                                                            5,807,713 [IMAGE AVAILABLE]
  ABSTRACT:
The invention concerns a protein of the ""TGF"-. ""beta". family, the
DNA coding therefor and a pharmaceutical composition containing such a
protein.
                                                                         5,658,882 [IMAGE AVAILABLE] L10: 2 of 2
Num. 1 93, 1937
Hethods of inducting formation of tendon and/or ligament
tissue comprising administering "BMP"-12, "BMP"-13,
and/or "MP"-52" Muson, MA
  US PAT NO:
DATE ISSUED:
TITLE:
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CLMS (2)

INVENTOR:

```
John M. Wozney, Hudson, MA
Vicki A. Rosen, Brookline, MA
Neil M. Wolfman, Dover, MA
Gerald H. Thomsen, Fort Jefferson, MY
Douglas A. Helton, Lexington, MA
Gerald H. Thomsen, Fort Jefferson, MY
Douglas A. Helton, Lexington, MA
(U.S. corp.)
President and Fellows of Harvard College, Cambridge, MA
(U.S. corp.)
08/362,670
Dec. 22, 1994
Vasu S. Jagannathan
Elizabeth C. Kemmerer
Steven R. Lazar, Thomas J. DesRosier
   ASSIGNEE:
 APPL-NO:
DATE FILED:
ART-UNIT:
PRIM-EXMR:
ASST-EXMR:
LEGAL-REP:
  US PAT NO:
                                           5,658,882 (IMAGE AVAILABLE)
                                                                                                                                                       L10: 2 of 2
 ABSTRACT: The present invention relates to methods for the induction of tendon/ligament-like tissue formation, wound healing and ligament and other tissue repair, using a composition comprising *BMP*-12, *BMP*-130, or *BMP*-522*, or combinations of the above
               (FILE 'USPAT' ENTERED AT 11:45:02 ON 24 NOV 1998)
489 S (METHOD AND (OSTEOPOROSIS OR OSTEOARTHRITIS OR ARTHROSTE
 L1
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834 S (METHOD AND (RHEUMATIC? OR RHEUMATISM? OR RHEUMATOID?))/
 L2
                                     0 S (METHOD AND ((RADICULAR OR ARVECULAR) (2A) DEFECT#))/CLM
                                 S ARVECULAR
3 S (METHOD AND RADICULAR)/CLM
1421 S TGFBETA# OR (TGF BETA#) OR (TRANSFORMING GROWTH FACTOR#
                                 870 S BMP# OR (((BONE MORPHOGEN?)OR OSTEOGENIC) (W) (PROTEIN# OR
                                  359 S MP52 OR (MP 52)
347 S MP 52
2 S L9 AND (L6 OR L7)
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               (FILE 'USPAT' ENTERED AT 11:45:02 ON 24 NOV 1998)
489 S (METHOD AND (OSTEOPOROSIS OR OSTEOARTHRITIS OR ARTHROSTE
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                                      E ARTHROSTEITIS
5 S E3
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834 S (METHOD AND (RHEUMATIC? OR RHEUMATISM? OR RHEUMATOID?))/
 L3
CLM
L4
                              0 S (METHOD AND ((RADICULAR OR ARVECULAR) (2A) DEFECT®))/CLM
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3 S (METHOD AND RADICULAR)/CLM
1421 S TGFBETA® OR (TGF BETA®) OR (TRANSFORMING GROWTH FACTOR®
 L5
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L10
                                 870 S BMP# OR (((BONE MORPHOGEN?)OR OSTEOGENIC)(W)(PROTEIN# OR
                                 359 S MP52 OR (MP 52)
347 S MP 52
2 S L9 AND (L6 OR L7)
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 L# LIST 'L1-L10' HAS BEEN SAVED A3 'A08945459/L'
             (FILE 'USPAT' ENTERED AT 11:45:02 ON 24 NOV 1998)
489 S (METHOD AND (OSTEOPOROSIS OR OSTEOARTHRITIS OR ARTHROSTE
                                  E ARTHROSTEITIS
5 S E3
L2
                                 E RHEUMATI?
834 S (METHOD AND (RHEUMATIC? OR RHEUMATISM? OR RHEUMATOID?))/
L3
CLM
L4
                              0 S (METHOD AND ((RADICULAR OR ARVECULAR) (2A)DEFECT#))/CLM
E ARVECULAR
3 S (METHOD AND RADICULAR)/CLM
1421 S TGFBETA# OR (TGF BETA#) OR (TRANSFORMING GROWTH FACTOR#
                                 870 S BMP# OR (((BONE MORPHOGEN?)OR OSTEOGENIC)(W)(PROTEIN# OR
                                 359 5 MP52 OR (MP 52)
347 S MP 52
2 S L9 AND (L6 OR L7)
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 U.S. Patent & Trademark Office LOGOFF AT 12:57:46 ON 24 NOV 1998
FILE 'USPAT' EMTERED AT 16:14:00 ON 24 NOV 1998
     WELCOME TO THE
U.S. PATENT TEXT FILE
 => s aminopetidase# or (amino petidase#)
                     4 AMINOPETIDASE#
159099 AMINO
2 PETIDASE#
0 AMINO PETIDASE#
(AMINO PETIDASE#)
4 AMINOPETIDASE#)
4 AMINOPETIDASE# OR (AMINO PETIDASE#)
=> s (di(w)14) or diaminopetidase#
 'L4' NOT FOUND
 => s (di(w)11) or diaminopetidase#
                 148213 DI

0 DI(W)L1

0 DIAMINOPETIDASES

0 (DI(W)L1) OR DIAMINOPETIDASES
=> d bib ab kwic 1- 11
                                      5,350,692 [IMAGE AVAILABLE] L1: 1 of 4 Sep. 27, 1994 Microorganisms useful for hydrogen gas production Fumiaki Taguchi, Kanagawa, Japan Masayoshi Morimoto, Tokyo, Japan Mikio Tekano, Tokyo, Japan Sepan Mikio Tekano, Tokyo, Japan (foreign corp.) 08/091,684 Jul. 15, 1993 Jul. 15, 1993 Joullas W. Robinson Jeffrey J. Seuigny Browdy and Neimark
US PAT NO:
DATE ISSUED:
TITLE:
INVENTOR:
ASSIGNEE:
APPL-NO:
DATE FILED:
ART-UNIT:
PRIM-EXMR:
ASST-EXMR:
LEGAL-REP:
                                        5,350,692 [IMAGE AVAILABLE]
US PAT NO:
                                                                                                                                                    L1: 1 of 4
ABSTRACT:
The treasure invention relates to a process for preparing hydrogen gas on the treasure of the process of the process
SUMMARY:
BSUM (36)
N-acetylglucosaminidase
alkaline phosphatase
leucylglycine aminopeptidase
glycine aminopeptidase
proline **aminopetidase**
phenylalanine aminopeptidase
arginine aminopeptidase
serine aminopeptidase
pyrrolidone aminopeptidase. . .
US PAT NO: 5,350,685 [IMAGE AVAILABLE] L1: 2 of 4
Sep. 27, 1994
Fritz: Sep. 27, 1994
Fritz: 1NVENTOR: Funiaki Taquchi, Kanaqawa, Japan
Masayoshi Morimoto, Tokyo, Japan
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Takeshi Kyoya, Kanagawa, Japan
Mikio Takano, Tokyo, Japan
Kajina Corporation, Tokyo, Japan (foreign corp.)
09/091,670
Jul. 20, 1993
    APPL-NO:
DATE FILED:
ART-UNIT:
PRIM-EXMR:
ASST-EXMR:
LEGAL-REP:
                                                        Douglas W. Robinson
Jeffrey J. Sevigny
Browdy and Neimark
    US PAT NO:
                                                      5,350,685 [IMAGE AVAILABLE]
                                                                                                                                                                                                   L1: 2 of 4
    ABSTRACT:
The resent invention relates to a process for preparing hydrogen gas on an industrial scale by culturing the microorganism Clostridium beijerinckii Ferm BP-3592 or the anaerobic asprogenic betterium strain Ferm BP-3593 in a medium containing glucose and/or a polysaccharide containing a glucose unit.
    N-acetylglucosaminidase
    alkaline phosphatase
   leucylglycine aminopeptidase
    glycine aminopeptidase
   proline **aminopetidase**
    phenylalanine aminopeptidase
   arginine aminopeptidase
    serine aminopeptidase
   pyrrolidone aminopeptidase. . .
  US PAT NO:
DATE ISSUED:
HMY 26, 1992
HMY 27, 1992
HMY 27,
   US PAT NO: 5,116,744 [IMAGE AVAILABLE]
   ABSTRACT: A hovel cyanide converting enzyme, a "cyanidase" is described. A novel cyanide converting enzyme, a "cyanidase" is described. The enzyme is extremely efficient in reducing substantial concentrations of cyanide to very low levels in a broad pH, and temperature range, and in the presence of organics and metal ions.
  SUMMARY:
   BSUM(48)
                             . 0.8-2.5 0.8-2.5
  .mu.m. 0.8-2.5 0.8-2.5
Motility + Plagellation peritrichous peritrichous
   Spores
Oxidase
Catalase
Growth
   anaerobic -
37/41.degree. C. +/-. . .
 US PAT NO:
DATE ISSUED:
Sep. 12, 1989
Strawberry plant 'Commander'
Harold A. Johnson, Jr., Watsonville, CA
David W. Small, Ventura, CA
AMAGO C. Amorac, Watsonville, CA
ASSIGNEE:
DISSCOIL Strawberry Associates, Inc., Watsonville, CA
(U.S. corp.)
DATE FILED:
DATE FILED:
DATE FILED:
DATE FILED:
ROBERT E. Bagwill
LEGAL-REP:
Townsend and Townsend
  US PAT NO: PP 7,024 [IMAGE AVAILABLE]
  ABSTRACT:
A new and distinct spring bearing variety of strawberry plant,
characterized by its ability to produce a strong plant, but which remains
in production consistently from April to October, if given adequate
The variety is particularly distinguished by its consistently good
flavor, large calyx, large smooth and attractive fruit, and heavy total
production. Its long shelf life also becomes a distinctive character. The
dark and glossy leaflets are characters that help identify this new
variety.
 DETD(11)
Leucyl **aminopetidase** (LAP): 2 Banded=B3*
  => s (cathepsin c)
                     902 CATHEPSIN
1298559 C
98 (CATHEPSIN C)
(CATHEPSIN(W)C)
  => s (initiator or (amino terminal)) (a) methionine
                            19304 INITIATOR
159099 ANINO
376746 TERMINAL
4916 ANINO TERMINAL)
13503 METHIONINE
611 (INITIATOR OR (AMINO TERMINAL)) (A) METHIONINE
  => s (initiator or ((amino or n)(w)termin7))(2a)(methionine or met)
                             39304 INITIATOR
159099 ANINO
693167 N
754063 TERMIN7
13503 METHIONINE
87697 MET
1529 (INITIATOR OR ({AMINO OR N}(W)TERMIN?}) (2A) (METHIONINE OR M
L6
ET)
=> s 13(p)16
                                         3 L3(P)L6
 => d bib ab kwic 1-
US PAT NO:
DATE ISSUED:
AF: 15, 1997
Fortecting agents from radiation hazards
NOBUSUKE Nishi, Maebashi, Japan
Haruhito Tsumura, Tano-qun, Japan
Haruhito Tsumura, Tano-qun, Japan
Kicin Brewery Company, Limited, Tokyo, Japan (foreign
APPL-NO: 08/357,125
DATE FILED: Dec. 16, 1994
ART-UNIT: 181
PRIM-EXMR: Howard E. Schain
LEGAL-REP: Foley & Lardner
                                                   5,620,685 [IMAGE AVAILABLE]
US PAT NO:
ABSTRACT:
The present invention relates to pharmaceutical composition comprising
SCP protein, IL-3 protein, GM-CSF protein and IL-6 protein. More
```

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specifically, the present invention relates to a protecting agent from radiation hazards, comprising SCF protein, IL-3 protein, GM-CSF protein protein and protein protein protein and protein protein
        DETDESC:
        DETD (39)
    (1) . . . a characteristic that a human IL-6 protein starting with Ala at the N-terminus can be produced by cleaving off the "New-"terminal" "West" bys sequence of the IL-6 protein with the protease "cathepsin" ""C". Such a treatment, however, was not carried out.
US PAT NO:
DATE ISSUED:
Apr. 19 1994
Apr. 19 19 1994
Apr. 19 19 1994
Apr. 19 19 1994
Apr. 19 19 1994
Apr. 19 19 19
    ASSIGNEE:
APPL-NO:
DATE FILED:
ART-UNIT:
PRIM-EXMR:
ASST-EXMR:
LEGAL-REP:
                                                                                                                                                                                                0//15,103
Jun. 11, 1991
186
David L. Lacey
Donald E. Adams
Richard B. Murphy, Leroy Whitaker
```

ABSTRACT

The instant invention provides novel molecules derived from the components of proinsulin using recombinant DNA technology. The invention provides molecules of the formula A--C-B wherein A is the A-chain of an insulin species and C is a connecting peptide. These molecules possess insulin-like activity and are dependent disherts mellitus. These molecules are also useful for the production of insulin and constitute a novel pathway for the recombinant production of insulin species. The invention provides a method of making insulin proceeding through the compounds of the invention as intermediates. The instant invention further provides recombinant DNA compounds which encode the compounds of the invention.

US PAT NO: 5,304,473 [IMAGE AVAILABLE]

DETDESC:

DETD (159)

This in significant savings in the recombinant production of commercially significant quantities of insulin by eliminating the requirement of removing the recombination of the second of the recombination of the result of the r

```
US PAT NO: 5,264,209 [IMAGE AVAILABLE] L8: 3 of 3
DATE ISSUED: Nov. 2,1 1993
Modified HIL-6
INVENTOR: Toshihumi Mikayama, Gunma, Japan
Toshihiko Kadoya, Takasaki, Japan
Makoto Kakitani, Maebashi, Japan
ASSIGNEE: Kirin-Amgen, Inc., Thousand Oaks, CA (U.S. corp.)
O7/632,010
DATE FILED: Dec. 21, 1990
ANT-UNIT: BEST-EARS: Keith C. Furman
LEGAL-REP: Mershall, O'Toole, Gerstein, Murray & Borun
                                                                                                                                                                        L8: 3 of 3
                                        5,264,209 [IMAGE AVAILABLE] L8: 3 of 3
US PAT NO:
```

ABSTRACT:
Provided are PEGylated "interleukin-6" derivatives (PEG IL-6) having an extended plasma half-life, as well as enhanced in-vivo IL-6 biological activities.

Methods for producing the modified glycosylated and unglycosylated IL-6 proteins or polypeptides, as well as, for their use in treating hematopolicit disorders and difficiencies, particularly acute thrombocytopenia, are also provided.

DETDESC:

SEQ ID No. 3 #8STR9## This amino acid sequence has **N**-**terminal** residues of **Met**-Lys-Ala-Pro-and thus can be conveniently converted to Ala-Pro-, the natural hIL-6 sequence, by cleaving off the Het-Lys using **cathepsin** **C**.

US PAT NO: 5,620,685 [IMAGE AVAILABLE]

I.8: 1 of 3

L8: 2 of 3

DETDESC: DETD (39)

(1) A DNA molecule which encodes the human IL-6 amino acid sequence was chemically synthesized in accordance with the procedure of Soura et al. (JP-A-63-50034) with reference to the published amino acid sequence of human IL-6 protein (Haegeman et al., Eur. J. Biochem., vol. 159, p. 625, 1986), and incorporated into E. coli to express human IL-6 protein in the same manner as described in JP-A-4-218000. The human IL-6 protein produced by expression in the thus prepared recombinant E. coli has a characteristic that a human IL-6 protein starting with Ala at the characteristic that a human IL-6 protein starting with Ala at the Lys sequence of the IL-6 protein with the protease "cathepain" "C". Such a treatment, however, was not carried out.

=> d detd(40)

US PAT NO: 5.620.685 [IMAGE AVAILABLE] L8: 1 of 3

DETDESC: DETD (40)

(2) Extraction, solubilization and refolding of human IL-6 protein were carried out in accordance with the procedure of JP-A-63-157996. => d detd(159) 2

US PAT NO: 5,304,473 [IMAGE AVAILABLE]

DETDESC: DETD (159)

This novel pathway for the preparation of insulin is distinct from the current practice of replicating natural processes in diverse organisms. This alternate pathway to insulin results in significant savings in the recombinant production of commercially significant quantities of insulin by eliminating the requirement of removing the "N"----terminal" "methionine" of the recombinant molecule with "catheppin" "C", or other methods, relying instead on the intrinsic action of the methionyl maino peptidase of the E. coli host cell to remove the "N"----terminal" "methionine".

=> d detd(160) 2

US PAT NO: 5,304,473 [IMAGE AVAILABLE]

DETDESC:

DETD(160)

Since the removal of the N-terminal methionine residue of ACB-PI is dependent on the presence of MAP, the host cell chosen must intrisically interest to produce MAP. The MAP protease is indigenous to E. coli cell name of the MAP and the protease is indigenous to E. coli cell name of the MAP may be employed in the practice of the method of the instant invention. Examples of E. coli host cells useful in the practice of the instant invention include the cell lines E. coli K12 L201, L687, L693, L507, L640, L641, L695, L814 (E. coli B). In the pre erred practice of the invention said E. coli host cell is the E. coli K12 RV308 E. coli cell line.

US PAT NO: 5,304,473 (IMAGE AVAILABLE) L8: 2 of 3

DETDESC.

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DETD(161)
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The conversion of the single-chain ACB-PI molecule to a functional native insulin or insulin analog requires the excision of the interal C-peptide. This may be achieved by enzymatic or chemical means such as cyanogen bromide cleavage. When the native human proinsulin A-chain, B-chain and C-peptide amino acid sequences are employed in the ACB-PIP peptide's construction as exemplified herein, the amino acid sequence of the ACB-PIP peptide is: #83TR398
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'A08945459/L' IN USE REPLACE OLD DEFINITION? Y/(N):n

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L# LIST 'L1-L8' HAS BEEN SAVED AS 'B08945459/L'

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(FILE 'USPAT' ENTERED AT 16:14:00 ON 24 NOV 1998)
4 S AMINOPETIDASES OR (AMINO PETIDASES)
0 S (DI (W) 11) OR DIAMINOPETIDASES
98 S (CATMERSIN C)
61 S (INITIATOR OR (AMINO TERMINAL)) (A) METHIONINE
1529 S (INITIATOR OR (AMINO OR N) (W) TERMIN7)) (2A) (METHIONINE O
L1
L2
L3
L4
L5
L6
R M
L7
L8
                                      14 S L3 AND L6
3 S L3 (P) L6
SAVE ALL B08945459/L
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U.S. Patent & Trademark Office LOGOFF AT 16:31:14 ON 24 NOV 1998

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FILE 'USPAT' ENTERED AT 16:36:29 ON 08 DEC 1998
 WELCOME TO THE
U.S. PATENT TEXT FILE
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=> s 5658882/pn

1 5658882/PN

=> s ll and ?dimer

17455 ?DIMER L2 1 L1 AND ?DIMER

SUMMARY:

BSUM (14)

The . . set forth in SEQ ID NO:26. In a preferred embodiment, the purified polyperide may be in the form of a "dimer" comprised of two subunits, each with the amino acid sequence of SEQ ID NO:2. DETDESC:

DETD(7)

The . BMP-12 would start at nucleotide \$571 of SEQ ID NO:1. The apparent molecular weight of this species of human BMP-12 "dimer" was determined by SDS PAGE to be approximately 20-22 kd on a Movex 16 this molecule is approximately 7.0. The apparent molecular weight of this molecule is approximately 7.0. The apparent molecular weight of this species of human BMP-12 "dimer" was determined by SDS-PAGE to approximately 25-27 kd on a Novex 16% tricine gel. The human BMP-12 protein exists.

DETDESC: DETD(31)

It . heteromolecules comprised of different BMP moieties. For example, a method and composition of the invention may comprise a disulfide linked "dimer" comprising a BMP-12 related protein subunit disulfide linked "dimer" comprising a BMP-12 related protein subunit moieties and the second subunitary of the second subuni

DETDESC: DETD (75)

It is contemplated therefore that the mature active spacies of BMP-12 comprises a "homodimer" of two polypeptide subunits, each subunit comprising amino acids \$1 to \$104 of \$50 10 NO.2 with a predicted molecular.

DETDESC:

DETD(118)

It is contemplated therefore that the mature active species of VL-1 comprises a **homodimer** of two polypeptide subunits, each subunit comprising amino acids #1 to #120 of SEQ ID NO:26 with a predicted molecular.

DETDESC: DETD (134)

A. . . . glutathione (oxidized); at pH of approximately 8.5). The solution is gently mixed and stored at 23 degree. C. for 1-4 days. "Dimer" formation is assessed by running an aliquot on a Novex 16% tricine gel at 125 volts for 2.5 hours, followed by Coomassie Blue staining and destaining BMP-12 "dimer" was purified using a C4 analytical RP-HPLC (reversed phase-high performance liquid chromatography) column (Vydac 2147P54) which was equilibrated to 1%.

=> log y

U.S. Patent & Trademark Office LOGOFF AT 16:39:53 ON 08 DEC 1998 -> e cerletti?/in

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E1
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E112
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-> s e2 L1

6 "CERLETTI N"/IN

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L1 ANSWER 1 OF 6 WPIDS COPYRIGHT 1998 DERWENT INFORMATION LTD
AN 96-117000 [12] WPIDS
C05-037103
TI Prodn. of dimeric biologically active transforming growth factor
by refolding denatured monomer in detergent-free folding buffer
contg. specific organic solvent to improve yield.

DC D04
CFRIERTI. N.**
C GUNLY - CAPACHATIA NOVA CITAL NOVA CONTROL NOVARTIS AG CONC 60 CONC 
                                                                                 (CIBA) CIBA GEIGY AC; (NOVS) NOVARTIS AG

80 9603433 A1 960208 (9612)* EN 54 pp

RW: AT BE CH DE DK ES FR GB GR IE IT KE LU MC MM NL OA PT SD SE

RW: AH AU BB BG BR BY CA CN CZ EE FI GE HU IS JF KG KP KR KZ LK

LV HD MG MH MX NO NE PL RO RU SG SI SK TJ TH TI UA US

AU 9511096 A 960222 (9621)

AU 9510326 A 960222 (9621)

AU 9500326 A 960222 (9621)

AU 9500326 A 970124 (9612)

AU 9500326 A 970124 (9612)
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NZ 290374 A 980728 (9836)
KR 97704778 A 970906 (9839)
ADT MO 9603433 Al WO 99-EP2719 950712; AU 9531096 A AU 95-31096 950712;
ZA 9506139 A ZA 95-6139 950724; FI 9700258 A WO 95-EP2719 950712, FI 97-258 970122; NO 9700326 A WO 95-EP2719 950712, FI 97-258 970122; NO 9700326 A WO 95-EP2719 950712, FI PROPERTY OF PROPERY
                                                          I 2P 94-810439 940725

ANSWER 2 OP 6 WPIDS COPYRIGHT 1998 DERWENT INFORMATION LTD 96-116999 [12] WPIDS COPYRIGHT 4 PROPERTY OF A PROPERTY OF A
        ANSWER 3 OF 6 WPIDS COPYRIGHT 1998 DERWENT INFORMATION LTD 93-161126 [20] WPIDS CS3-071116 New hybrid transforming growth factor-beta molecules - comprise portions of mature TGF-beta isoforms; useful as wound healants, cardioprotective, antiinflammatory and immunosuppressive agents etc..
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IN
        FDT
                                                            5411882
GB 89-15414 890705
                                              DC
IN
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ADT EP 263072 A EP 87-810561 870928; ZA 8707417 A ZA 87-7417 071002; JP 63157997 A JP 87-246168 871002; NO 92-01024 A Div ex NO 87-4159 871002; NO 92-01024 A Div ex NO 87-4159 871002; NO 92-01024 A Div ex NO 87-4159 871002; NO 92-01024 870928; DE 27-810558 870928; DE 27-81058 870928; D